



Monday, January 8th, 2018
3:00pm to 4:00pm

LANE COUNCIL OF GOVERNMENTS

An Enterprise, Sustainable, Scalable and Enduring Multi-Jurisdictional GIS Strategic Plan



**A Nationally Recognized and Award
Winning Model of Interagency
Cooperation and GIS Achievement**



ArcGIS Online
Specialty



ArcGIS for
Local Government
Specialty

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• Phase II: Define Future Conditions	
• Phase III: Establish Governance	
E. GTG's Approach, Methodology and Scope of Services	5 min
F. Three Phases and Seven Steps	5 min
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• Key Staff	5 min
• Experience with Regional Partnership and Equitable Contributions	5 min
• A Wider Constituency	5 min
• Trends in Technology and Software for integrated and Consolidated Services	5 min
• Funding Models for Cooperative Partnership	5 min
H. Building High-Performance Organizations (HPO)	2 min
I. Why Should LCOG Select Geographic Technologies Group?	3 min
	<hr/> 60 minutes



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GTG STRATEGIC PLANNING // GISPLAN.COM



600+ Satisfied Clients

20

Years In Business



11+ National Awards

STRATEGIC

Our strategic GIS planning philosophy includes a methodology that is deliberate, considered, intentional, and tactical, supported by well-calculated planning and decision-making. Strategy means examining the big picture—keeping long-term goals and objectives in mind while carefully analyzing the actions and initiatives required to reach those goals. It can include a vision, goals, and objectives supported by Key Performance Indicators (KPI) and GIS Outcomes.

ENTERPRISE

Our team plans, designs and implements GIS solutions throughout entire organizations. We pride ourselves in our innovative, creative and original uses of GIS across all departments. A true enterprise GIS encompasses the willingness to undertake a significant project or task especially if it is complicated, difficult, or risky. It requires initiative and deliberate effort to reach an intended goal. Enterprise is associated with boldness, resourcefulness, and energy.

SUSTAINABLE

Our team understands GIS sustainability as a solution that supports the weight of something, providing for its needs, and maintaining and prolonging it—to keep something viable. It means to progress or continue something: to nourish it into long-term fruition. Sustainability requires intentionality, support, and maintenance. Our team develops GIS plans and implements enterprise solutions that are sustainable.

SCALABLE

A scalable GIS means being flexible: to be able to be used in a many different ways, including intranet, internet, desktop, and mobile GIS. Scalability also involves customization—to be able to be upgraded, expounded, or simplified to fulfill a task. Scalability revolves around accommodation and cooperation to reach a goal. Our enterprise-wide, sustainable solutions are scalable to all needs of government.

ENDURING

An enduring GIS solution is long-lasting, permanent, and withstanding. To endure involves working at something diligently, sustainably, and meticulously to produce lasting outcomes, that remain constant and stable for a long period of time. Our strategic plans embrace every aspect of GIS management and technology – making our roadmaps enduring, stable, and lasting. Enduring GIS solutions focus on tried and tested long-term resilient strategies for GIS implementation, governance, data and databases, and procedures.



Six Pillars of Sustainability



7 Keys to Success



Training, Education and Knowledge Transfer



GIS Outcomes



Online Questionnaire



GIS Technology Seminar



Departmental Interviews



Citizen Engagement



GIS Benchmarking



Key Performance Indicators



Optimum Governance Models



Consensus Building



Return on Investment (ROI) Analysis



Vision, Goals, and Objectives



Best Business Practices

WHO WE SERVE

Towns, Cities, and Counties

PUBLIC SAFETY

PUBLIC WORKS AND UTILITIES

LAND MANAGEMENT

NATURAL RESOURCES

PUBLIC ADMINISTRATION

PUBLIC SERVICES

TELECOMMUNICATIONS

We Serve All Local Government Departments

We take pride in being an award-winning GIS company that provides full-service enterprise GIS solutions and software for local government. GIS for local government is what we do.



Executive Management



Transportation



Emergency Management
and EOC



Police Department



Tree Management and
Arborist



Parks and Recreation



Environmental and
Conservation



Legal Department



Planning and Zoning



Housing Department



Water, Sewer, and
Stormwater



Engineering



Public Information Officer



Sheriff Department



Building and Inspections



Code Enforcement



Economic Development



Information Technology



Elections



Community
Development



Telecommunications



Electric



Tax Assessors



Fire Department



Cooperative Extension



Libraries



Schools



Public Health



Social Services



Finance Department

AWARD WINNING COMPANY

Strategic Planning Client Map:
Serving 600+ clients across North America

GIS AWARDS

- Esri SAG Awards
- Esri Best Citizen Engagement
- URISA Best Web GIS
- URISA Best Public Sector GIS

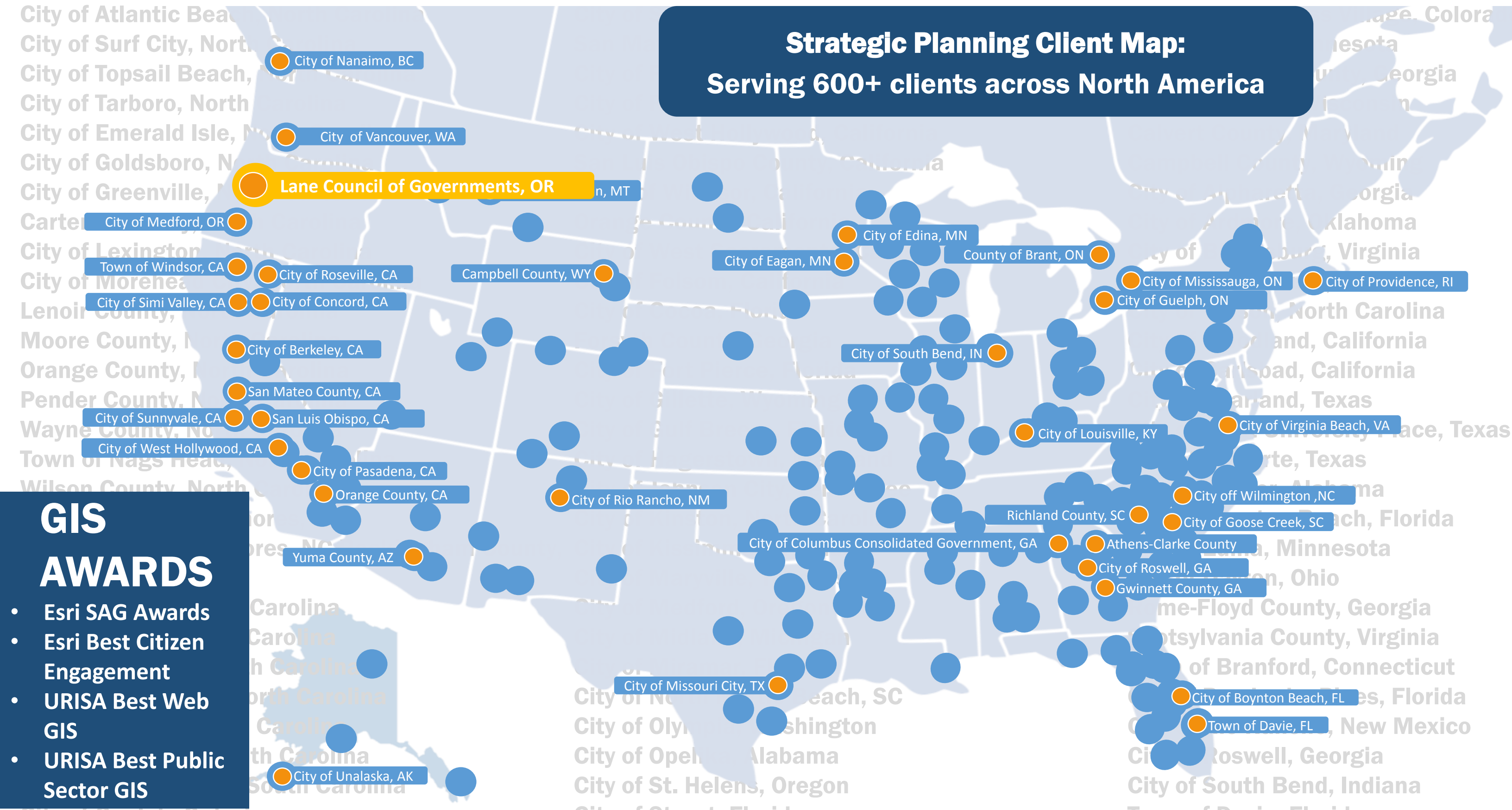


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LANE COUNCIL OF GOVERNMENTS



Members

6 School Districts

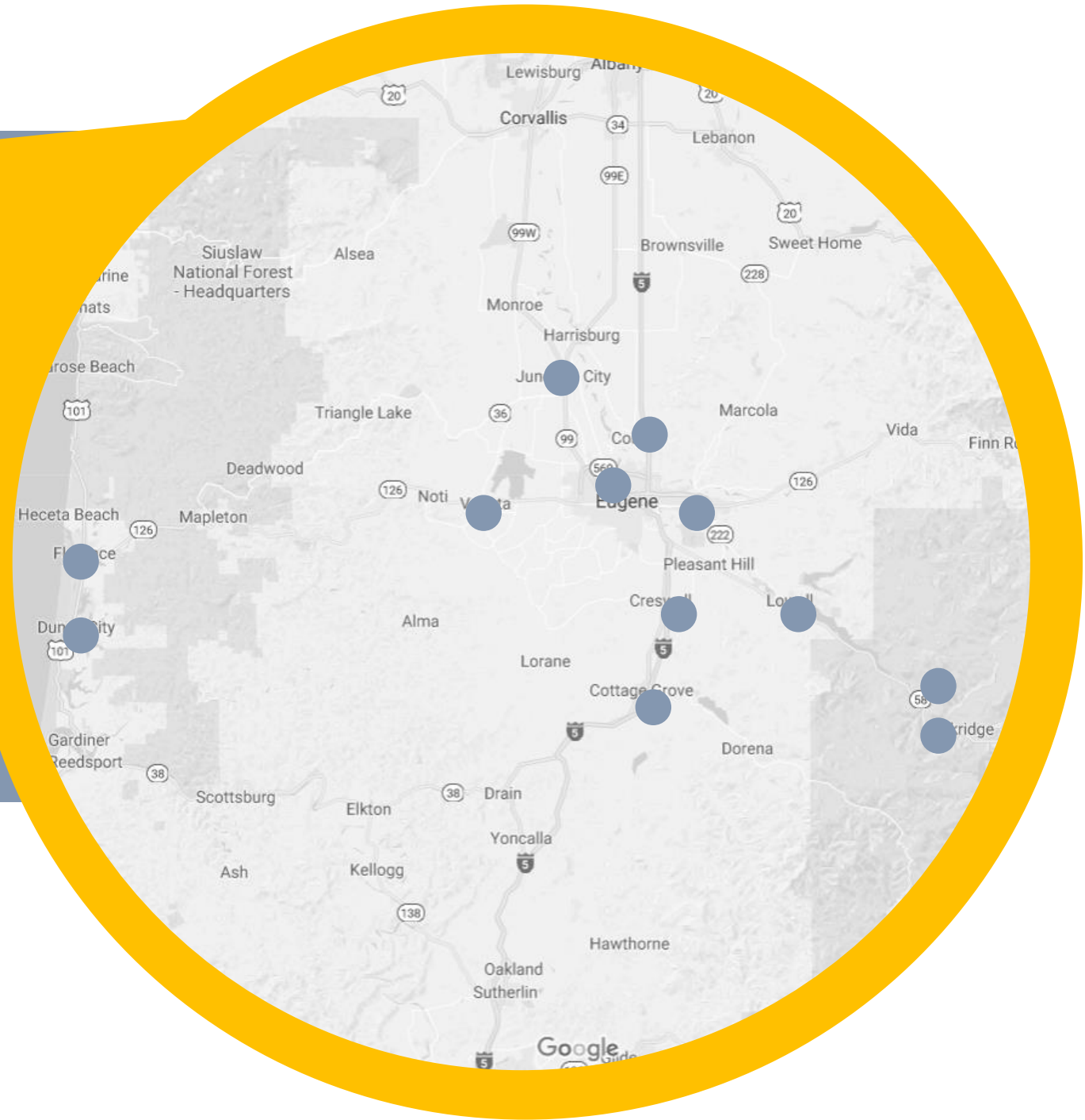
- School District 19 (Springfield)
- School District 4J (Eugene)
- School District 40 (Creswell)
- School District 45J (South Lane)
- School District 52 (Bethel)
- School District 68 (McKenzie)
- Education, College, and Libraries:
 - Siuslaw Library District
 - Fern Ridge Library District
 - Lane Library District
 - Lane Community College
 - Lane Education Service District

12 Cities

- City of Coburg
- City of Cottage Grove
- City of Creswell
- City of Dunes City
- City of Eugene
- City of Florence
- City of Junction City
- City of Lowell
- City of Oakridge
- City of Springfield
- City of Veneta
- City of Westfir

Others

- Emerald People's Utility District
- Eugene Water & Electric Board
- Heceta Water People's Utility District
- Junction City RFPD
- Lane County
- Lane Transit District
- Port of Siuslaw
- River Road Park & Recreation
- Siuslaw Valley Fire & Rescue
- Western Lane Ambulance District
- Willamalane Park & Recreation District



A NATIONALLY RECOGNIZED MODEL OF INTERAGENCY COOPERATION AND GIS ACHIEVEMENT

LANE COUNCIL OF GOVERNMENTS

VOLUNTARY: A Voluntary Association of local governments in Lane County, Oregon.

REGIONAL: A regional planning, coordination, program-development, and service-delivery organization. It provides and facilitates efficient and effective government services through cooperative planning, program development, analysis, and service delivery.

MULTI-JURISDICTIONAL: Helps area cities, counties, educational districts, and special-purpose districts reach their common goals.

PUBLIC SERVICE: A mission to coordinate and provide high quality public services in Lane County.

33 MEMBERS: Serves 33 members, including Lane County

- 12 cities within the county:
- Education, public utility, and other special districts.

DEDICATION TO CITIZENS OF LANE COUNTY: Dedicated to serving the public interest and enhancing the quality of life for the citizens of Lane County.

RLID and COOPERATIVE PROJECT PARTNERS

40 YEARS OLD: Local governments in Lane County have cooperated in developing geospatial data and technology for more than 40 years.

COMMON MAPPING PARTNERS: Historically known as the “Common Mapping” partners,

NATIONAL RECOGNITION: the Cooperative Project Partnership (the Partners) remains one of the most successful and long-standing regional mapping efforts in the country.

PARTNERSHIP NEEDS: The Partners share a need for consistent data across their respective jurisdictions and the desire to minimize redundancy and costs where possible through shared data, systems, and collaboration.

PARTNER AGENCIES: The Partner Agencies include:

- City of Eugene, Lane County
- City of Springfield, Lane County
- Eugene Water & Electric Board (EWEB),
- Lane Council of Governments (LCOG)

1968

Digitized data and sharing of parcels

1982

Multi-jurisdictional task force; common mapping system

1993

Esri software

1997

Regional GIS Marketing Plan

Without the participation of the partner agencies, the public and business communities do not enjoy anything approaching the completeness, quality, and reasonable cost of RLID.

SIX MAJOR IMPORTANT KEY FACTORS FOR THE FUTURE OF RLID/CPP

Fact #1

LCOG administers central GIS services to the Partners through an annual work program under the long-standing Cooperative Project Agreement (CPA).

FACT #1: ADMINISTRATION

FACT #2: HISTORICAL FACTS

FACT #3: INTEGRATED WAREHOUSE AND SOFTWARE TOOLS

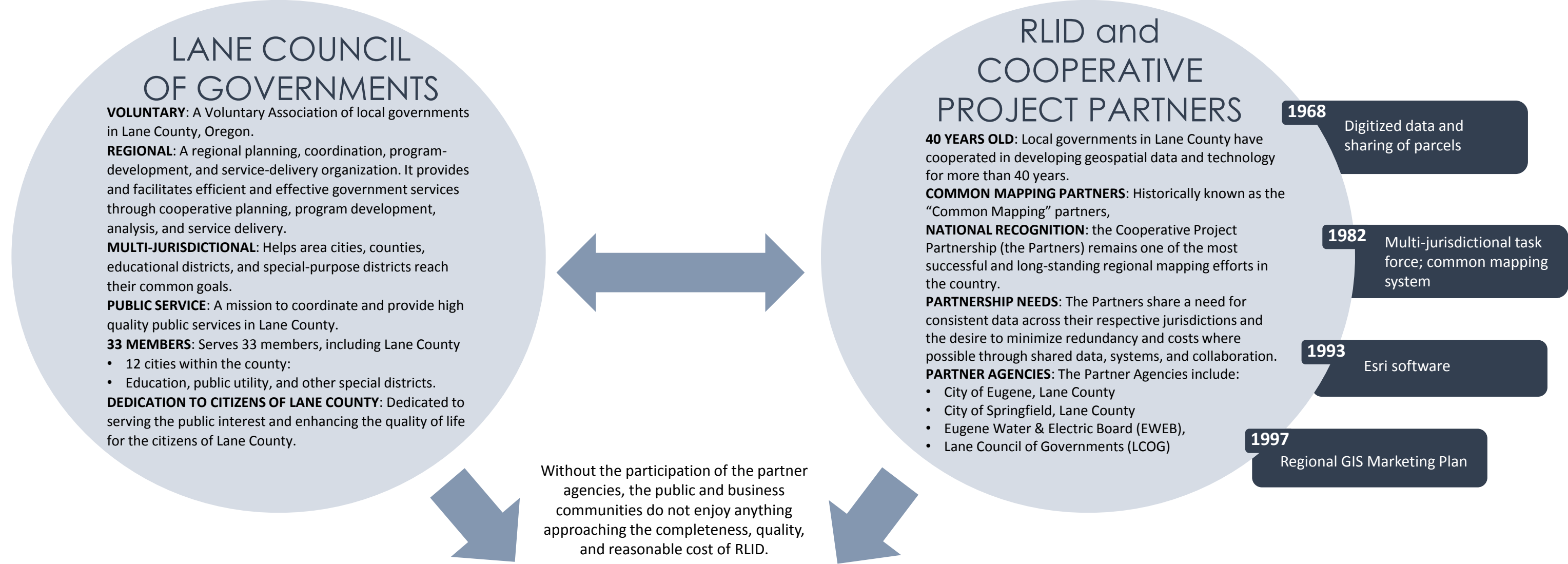
FACT #4: FOCUS SHIFT TO MAINTENANCE AND ENHANCEMENT OF RLID SYSTEM

FACT #5: MOVE TO SUBSCRIPTION APPROACH

FACT #6: RLID IS A CRITICAL COMPONENT FOR FUTURE SUCCESS

1. **RLID features a model regional oversight and management structure.** All of the partner agencies participate in the ongoing budgeting, planning, and oversight of the enterprise.
2. **RLID consists of a wealth of data and applications in one centralized web location.** Duplication of application development effort is avoided and the region saves resources.
3. **RLID provides an integrated view via a single simplified database and application rules.** This allows a broad range of users to visit one website for a wide range of GIS data needs.
4. **RLID features a unique and mutually beneficial public/private partnership.** The system is funded through a combination of partner agency shares and subscriber-based revenues resulting in a win-win-win arrangement for the partners, subscribers, and general public.
5. **After nearly two decades, RLID remains extremely popular** among its users and the commercial subscriber pool continues its steady growth.

A NATIONALLY RECOGNIZED MODEL OF INTERAGENCY COOPERATION AND GIS ACHIEVEMENT



SIX MAJOR IMPORTANT KEY FACTORS FOR THE FUTURE OF RLID/CPP

Fact #2

Central GIS data and systems maintenance; GIS technical support and products; Regional coordination and data standards development.

FACT #1: ADMINISTRATION

FACT #2: HISTORICAL FACTS

FACT #3: INTEGRATED WAREHOUSE AND SOFTWARE TOOLS

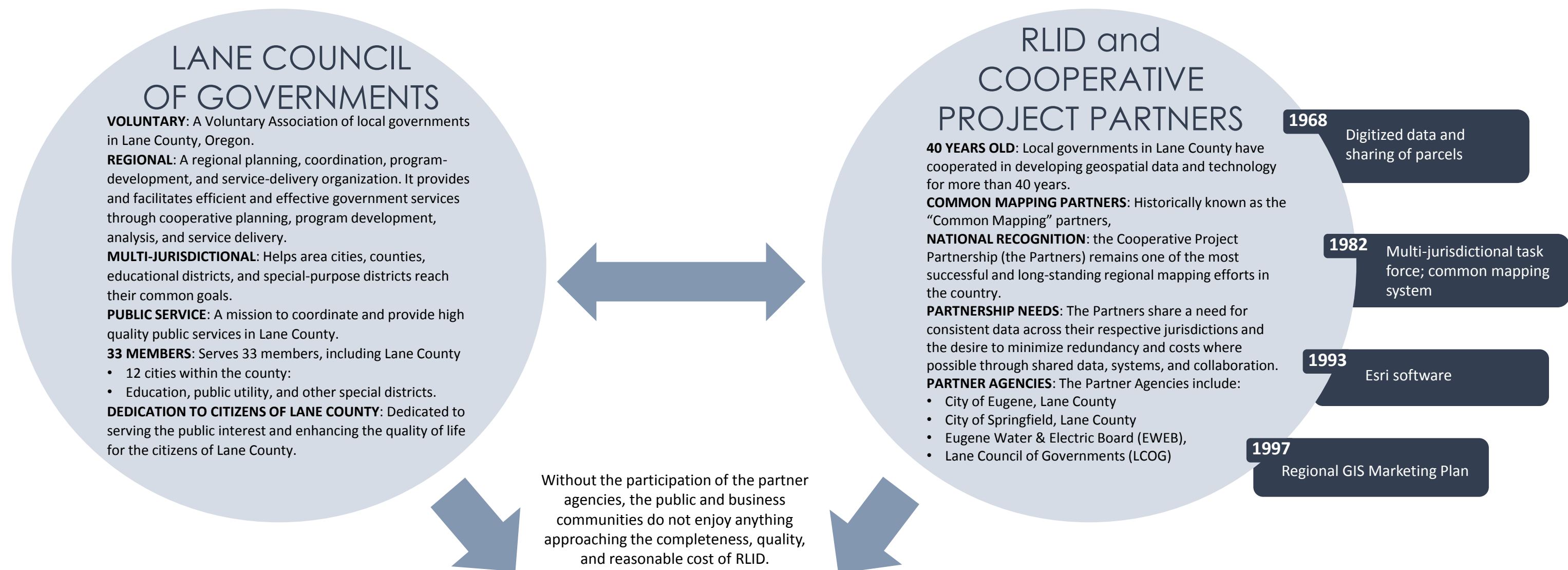
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SIX MAJOR IMPORTANT KEY FACTORS FOR THE FUTURE OF RLID/CPP

Fact #3
In 2000, the Partners developed a shared system comprising an integrated spatial and tabular data warehouse.

- FACT #1:** ADMINISTRATION
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- FACT #3:** INTEGRATED WAREHOUSE AND SOFTWARE TOOLS
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Fact #4

With the growth and development of RLID, the focus of CPA resources shifted from centralized data maintenance, agency technical support services and map products toward continued maintenance and enhancement of the RLID system.

SIX MAJOR IMPORTANT KEY FACTORS FOR THE FUTURE OF RLID/CPP

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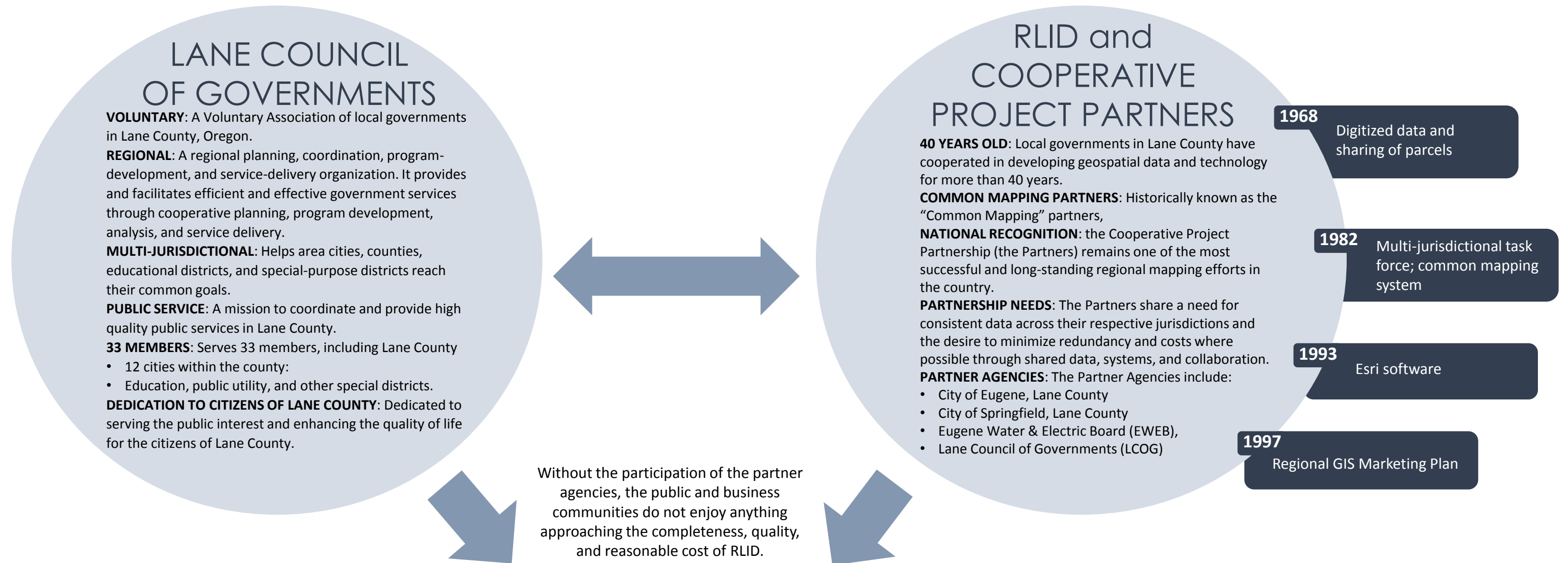
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A NATIONALLY RECOGNIZED MODEL OF INTERAGENCY COOPERATION AND GIS ACHIEVEMENT



SIX MAJOR IMPORTANT KEY FACTORS FOR THE FUTURE OF RLID/CPP

Fact #5

To help offset the costs for RLID, LCOG has expanded commercial access to the website through subscriptions.

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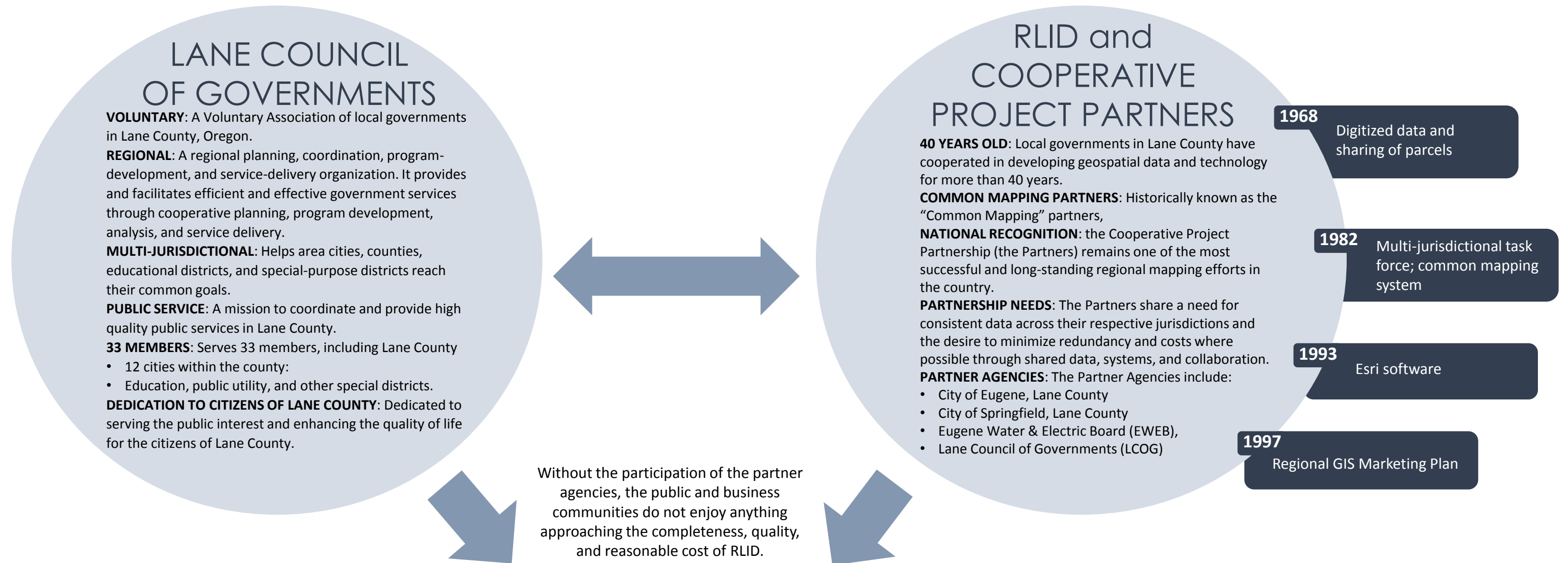
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Fact #6

Some Partners seek opportunities to serve their citizens through open data initiatives either through an integrated regional web portal or services created, hosted, and served by individual agencies.

SIX MAJOR IMPORTANT KEY FACTORS FOR THE FUTURE OF RLID/CPP

FACT #1: ADMINISTRATION

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PROJECT UNDERSTANDING

Geographic Technologies Group understand that the Partners seek professional consulting services to perform the following task:




Stated in the Request for Proposals (RFP)

Review and restructure the regionally shared GIS systems and services administered under the longstanding Cooperative Partnership Agreement (CPA).



Partnership Objective

Our objective is to develop strategic plan(s) that address the organizational components of an innovative, successful, and durable regional partnership that continues well into the future.



The Partners have established a **process framework and two advisory bodies for supporting this effort**. The bodies are the long-standing Regional GIS Coordinators committee (GIS Coordinators), consisting of GIS leads from the five partner agencies; and the CPA Partnership Development Steering Workgroup (Steering Workgroup), composed of program manager and director stakeholders and the GIS Coordinators.



Geographic Technologies Group Project Goals and Objectives

Review, plan, design and restructure the regionally shared spatial data systems and services administered under the longstanding Cooperative Partnership Agreement (CPA), with special focus on **participation, governance, technology and an enterprise funding model**.

An Enterprise, Sustainable, Scalable and Enduring Multi-Jurisdictional GIS Strategic Plan

PROJECT UNDERSTANDING

Geographic Technologies Group understand that the Partners seek professional consulting services to perform the following task:

Regional Land Information Database (RLID) and Cooperative Project Agreement (CPA)

- 1** Governance
- 2** Participation
- 3** Technology
- 4** Funding Model

Why is a regional model full of opportunities?

What can LCOG – RLID/CPP and this Interagency model offer the region?

How can RLID grow?

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PROJECT GOALS AND OBJECTIVES

PHASE I: ASSESS THE CURRENT SYSTEM



Describe and assess existing regionally shared spatial data system architecture, centralized services, technology framework, and partner interactions in the context of current partner agency requirements

- Architecture
- Centralized Services
- Technology Framework
- Partner Interactions

PHASE II: DEFINE FUTURE CONDITIONS



Define optimal regionally shared GIS system components and services, as well as the technological and resource requirements necessary to sustain these

- Components
- Services
- Technology
- Resources

PHASE III: ESTABLISH GOVERNANCE



Recommend workable partnership model(s) for continuing collaborative regional GIS systems participation, governance, and a sustainable business and funding model

- Partnerships
- Governance
- Collaboration
- Sustainability
- Funding Model

PROJECT GOALS AND OBJECTIVES



Assessment of Current System



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UNDERSTANDING LOCAL GOVERNMENT



Future Optimum System Design



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UNDERSTANDING LOCAL GOVERNMENT



Governance Model



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PROJECT GOALS AND OBJECTIVES

FINAL PRODUCT



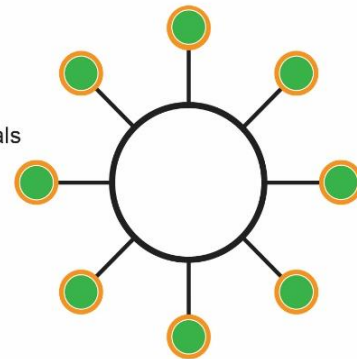
PROJECT GOALS AND OBJECTIVES

Decentralized, Centralized, Hybrid, and Hybrid & Regionalization Governance Models

..... Decentralized Governance Model

The second type of management strategy is called a Decentralized model. As the name implies a decentralized organizational structure divides GIS responsibilities throughout various departments.

- » GIS responsibilities are divided throughout the organizations
- » Multiple GIS groups/activities
- » Small groups of GIS professionals
 - hardware/software
 - data distribution
 - data exchange
 - training
- » End users share responsibility for maintaining data
- » Multiple budget sources

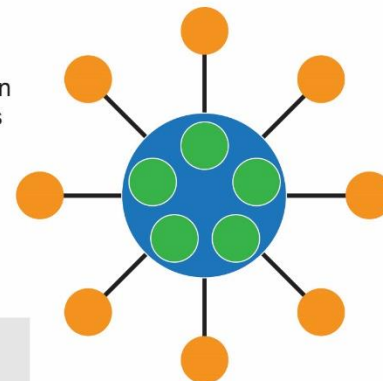


● Department
● GIS Staff

..... Centralized Governance Model

The first type of governance model is Centralized. A centralized organizational structure maintains a central department or division that is responsible for all GIS services.

- » Single GIS business unit
- » Dedicated department or division
- » Core group of GIS professionals
 - create and edit data
 - hardware/software
 - analysis
 - data distribution
- » Single budget source

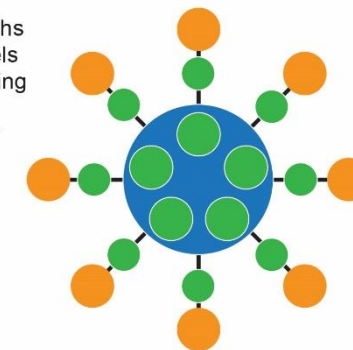


● Department
● GIS Staff
● GIS Department/GIS Coordinator

..... Hybrid Governance Model

Many local governments utilize a Hybrid GIS organizational structure, based on the advantages of centralized and decentralized organizational structures

- » Attempts to capture the strengths of unified and distributed models
- » GIS functions are managed using responsibility matrix
- » Intra-departmental stakeholder teams
- » Funding and leadership are shared
- » Dual accountability

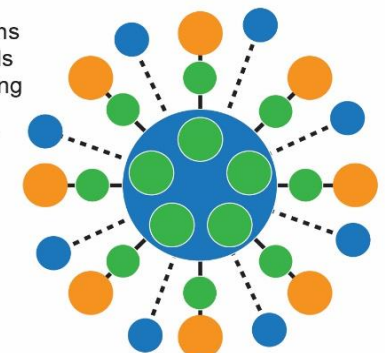


● Department
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..... Hybrid & Regionalization Governance Model

Many local governments utilize a Hybrid GIS organizational structure that supports a regionalization of GIS. It has the advantages of a centralized and decentralized model.

- » Attempts to capture the strengths of unified and distributed models
- » GIS functions are managed using responsibility matrix
- » Intra-departmental stakeholder teams
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● Department
● GIS Staff
● GIS Department/GIS Coordinator/External Organization

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APPROACH, METHODOLOGY AND SCOPE OF SERVICES

Fundamental Steps to REGIONAL GIS STRATEGIC PLANNING

*Designing a Multi-Agency Geo-Spatial Data Services Framework
and Restructuring a Multi-Jurisdictional Partnership Agreement*



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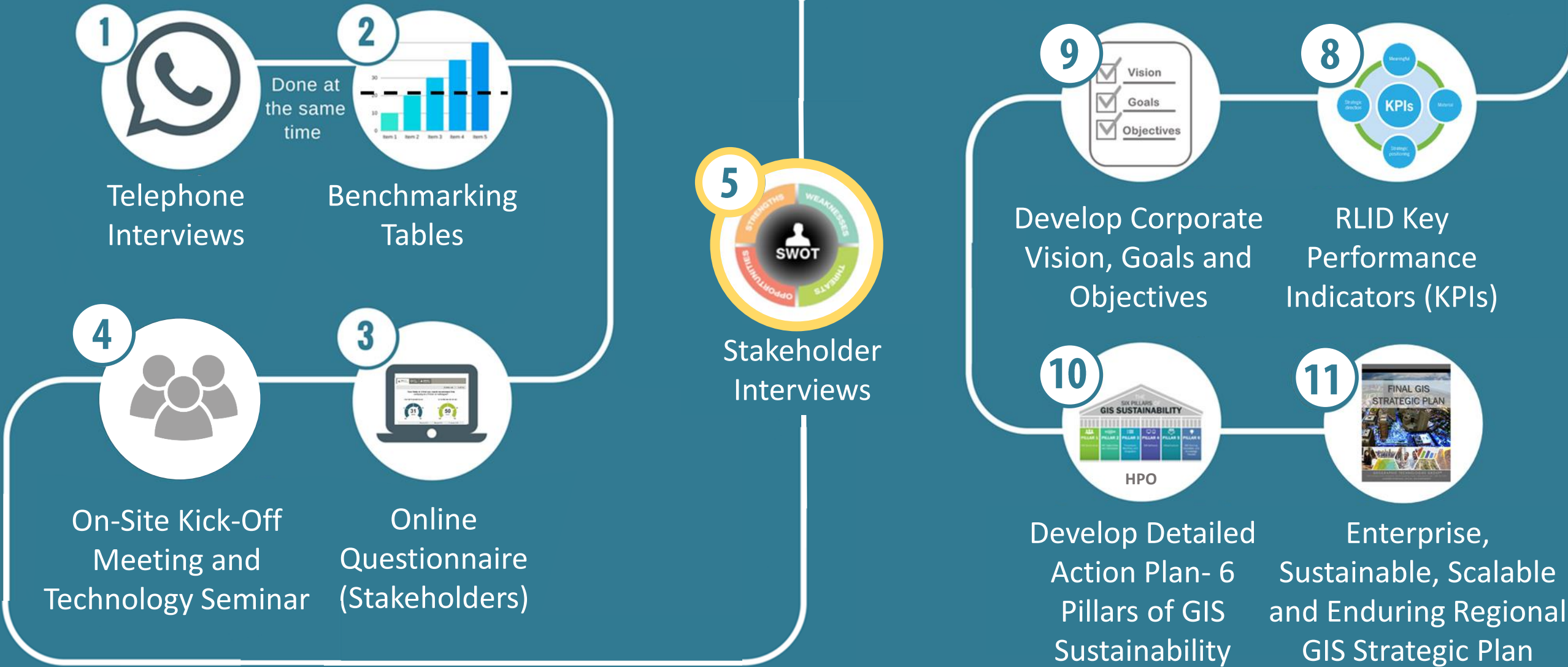
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EMAIL PROJECT ANNOUNCEMENT

TAKE THE SURVEY

Email



LANE COUNCIL OF GOVERNMENTS

Designing a Multi-Agency Geo-Spatial Data Services Framework

Geographic Technologies Group (GTG) has been selected to design a multi-agency geo-spatial data services framework and restructure a multi-jurisdictional partnership agreement to guide the implementation of an enduring and thriving Enterprise GIS program for LCOG.

We need your help!

Keep an eye out for the Online Questionnaire

In a few days, you will receive an email with instructions and a link to an Online Questionnaire. This questionnaire will give staff an opportunity to anonymously comment on GIS needs, constraints, and opportunities. Your participation and feedback are important. Staff responses will be compiled into a report that will become the first step in evaluating the geospatial data, technology and organizational needs for LCOG.

Your participation will help guide the plan and vision for a Strategic, Enterprise, Sustainable, Scalable and Enduring GIS Program.

Become part of the process!

PHASE I

STEP 01 GISQ: Online Questionnaire

STEP 02 Kick-Off Meeting & Technology Seminar

STEP 03 Departmental Interviews

STEP 04 GIS Needs Assessment Findings Presentation

PHASE II

STEP 05 Alternative System Design Presentation

STEP 06 Business Plan & ROI Analysis

PHASE III

STEP 07 PRODUCT GIS Strategic Plan

We thank you in advance.



GTG is the country's leading GIS Strategic Planning company, with award-winning solutions throughout North America.

Email



LANE COUNCIL OF GOVERNMENTS

Designing a Multi-Agency Geo-Spatial Data Services Framework

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THE SIX PILLARS OF GIS SUSTAINABILITY



PILLAR 1

GIS Governance



PILLAR 2

GIS Digital Data and Databases



PILLAR 3

Procedures, Workflow, and Integration



PILLAR 4

GIS Software



PILLAR 5

Infrastructure



PILLAR 6

GIS Training, Education, and Knowledge Transfer



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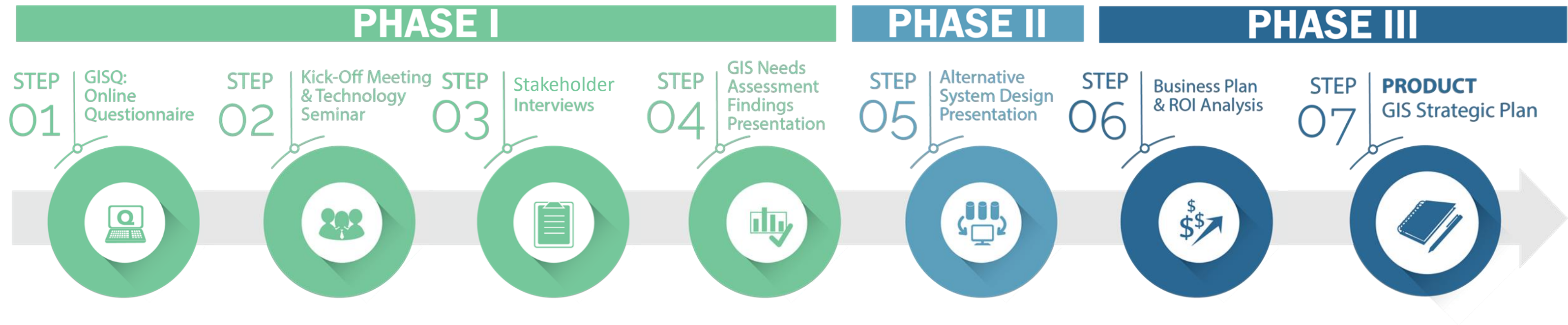
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THREE PHASES AND SEVEN STEPS

Governance, Participation, Technology and Funding Model



- **Multi year phased plan**
- **Step-By-Step Plan of Action**
- **Multiple and discrete phases**
- **Funding options and alternatives**
- **Short term and long term solutions**
- **Implementation costs**

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SPECIFIC LCOG QUESTIONS

1

“Please discuss how you will adapt your standard “Seven Keys to GIS Success” service approach and recommendations to our particular needs given the long-standing multi-agency GIS partnership in Lane County and mature GIS systems we share in our region”

7 KEYS to GIS SUCCESS PHILOSOPHY



GIS MASTER PLAN

Careful planning ensures broad organizational commitment and adequate funding, and minimizes common road blocks. It serves as a guide for staffing, data standards, training, and hardware and software purchases.

GOVERNANCE

This is the most critical characteristic of successful GIS programs. Most organizations will need to evaluate and implement the optimum governance model for managing and maintaining their GIS.

QUANTIFY BENEFITS VS COST

Proven savings in time, life, and money guarantees continued support and momentum. Make sure you invest resources on solutions that solve specific problems.

QUICK SUCCESS

The earliest phases of GIS are typically the most expensive and the most important, but the least glamorous. High impact projects that can be implemented in the first year help maintain enthusiasm and build credibility for GIS.

ENTERPRISE-WIDE IMPLEMENTATION

Spread the responsibilities for GIS throughout the organization and offer all departments the opportunity to use the technology. GIS should be as widely used as a word processor, on every desktop in the organization. This approach helps turn data into valuable information.

EASE OF USE

Gone are the days when GIS was limited to a few highly trained power users. Make sure you implement intuitive, easy solutions so everyone can benefit. Some of the most widely accepted GIS applications are delivered to the public via the Internet.

EDUCATION

Make sure users throughout the organization understand what GIS can do for them. Give users at all levels a preview of how they will soon be able to do their jobs more efficiently with GIS.



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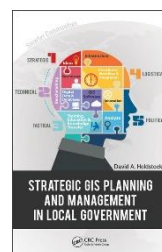
SPECIFIC LCOG QUESTIONS

2

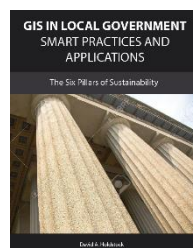
“How will you ensure, to the extent possible, that the staff whose qualifications are presented in the Statement of Qualifications are the staff who execute the project?”

David Holdstock, CEO

Project Manager, GISP
25 Years of Experience
GIS Needs Assessment & Strategic Plans



Author,
Strategic GIS Planning and Management in Local Government

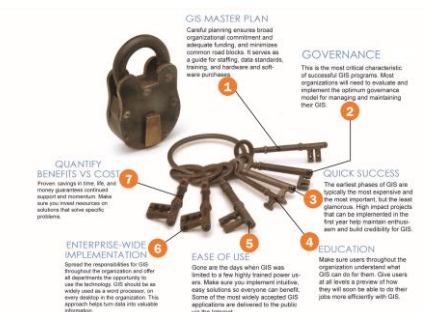


Coming 2019:
GIS in Local Government: Smart Practices and Applications
The Six Pillars of Sustainability

Curtis Hinton, President

Project Manager, GISP
25 Years of Experience

GIS Needs Assessment & Strategic Plans
7 Keys to GIS Success



Matthew McLamb, CTO

Chief Technology Officer
8 Years of Experience

Strategic GIS Planning
ArcGIS Online Expert
Local Government Information Model

Kathy Andrade-Ulloa

Senior Strategic Planner
13 Years of Experience

Strategic Planning
Business Development
Database Management and Maintenance

Team Roles

Task	Key Role			
	David Holdstock	Curtis Hinton	Matthew McLamb	Kathy Andrade-Ulloa
Phase I: GIS Needs Analysis	●	●	●	●
Step 1: Online Questionnaire	●	●		●
Step 2: Kick-Off Meeting and Seminar	●	●	●	
Step 3: Stakeholder Interviews	●	●	●	
Step 4: GIS Needs Assessment Presentation	●	●		
Phase II: Conceptual Alternative Systems Design	●	●	●	●
Step 5: Vision, Benchmarking, SWOT, KPIs	●	●	●	●
Phase III: Final GIS Strategic Implementation Plan	●	●	●	●
Step 6: Business Plan and ROI Analysis	●	●	●	
Step 7: Final GIS Strategic Implementation Plan	●	●	●	●

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SPECIFIC LCOG QUESTIONS

3

“What are your experiences in formulating equitable contributions from each member of a regional partnership?”

12 SHARED COLLABORATIVE GIS SYSTEMS

- City of Vancouver and Clark County, WA
- Columbus Consolidated Government, GA
- Athens-Clarke County, GA
- City of Casper and Natrona County, WY
- City of Edina and LOGIS, MN
- City of Winston-Salem and Forsyth County, NC
- Orange County and Municipalities, CA
- City of Eagan and LOGIS, MN
- Gwinnett County and Municipalities, GA
- Rome-Floyd County, GA
- San Mateo County, CA
- Louisville/Jefferson County Information Consortium (LOJIC) and Louisville/Jefferson County, KY

Additional Organizations Researched:

- Leon County and Tallahassee, FL
- San Diego County and City, CA
- Knox County and Knoxville Utilities and City, TN
- Mario County and Indianapolis, IN
- DeKalb County and Auburn, IN
- Champaign County Consortium, IL
- McLean County, IL Regional GIS
- Cheyenne- Laramie County Cooperative GIS

KEY FACTORS

- Population
- Budget
- Services
- Software

EXAMPLES

- City of Edina and LOGIS
- Gwinnett County and Municipalities
- Louisville-Jefferson County and LOJIC
- City of Vancouver and Clark County

SPECIFIC LCOG QUESTIONS

3

“What are your experiences in formulating equitable contributions from each member of a regional partnership?”

CHALLENGES, BARRIERS, RISKS, AND PITFALLS OF MULTI-JURISDICTIONAL COLLABORATIVE AND SHARED GIS SYSTEMS									
Organization	Politics	Funding	Participation of Partner Agency (do-it-themselves)	Architecture Data Sharing	Software Licensing	Cost	Governance Model	Integration and Interoperability	Level of Expertise in Participating Agencies
City of Vancouver and Clark County, WA	✓	✓		✓	✓	✓	✓	✓	✓
Columbus Consolidated Government, GA	✓	✓	✓	✓	✓	✓	✓	✓	✓
Athens-Clarke County, GA	✓	✓	✓	✓	✓	✓	✓	✓	✓
City of Casper and Natrona County, WY	✓	✓			✓				
City of Edina and LOGIS, MN		✓	✓	✓	✓	✓		✓	✓
City of Winston-Salem and Forsyth County, NC	✓		✓			✓			✓
Orange County and Municipalities, CA	✓	✓	✓	✓	✓	✓	✓	✓	✓
City of Eagan and LOGIS, MN		✓	✓	✓	✓	✓		✓	✓
Gwinnett County and Municipalities, GA		✓	✓	✓	✓	✓			✓
Rome-Floyd County, GA	✓	✓		✓					
San Mateo County, CA	✓	✓	✓				✓		✓
Louisville/Jefferson County and LOJIC, KY	✓	✓		✓	✓	✓	✓	✓	✓

12 SHARED COLLABORATIVE GIS SYSTEMS



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SPECIFIC LCOG QUESTIONS

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“The new agreement may include a wider constituency than the current governing and funding partnership composition. What methods do you propose for identification, outreach, and inclusion of other user groups and defining their role in the partnership?”

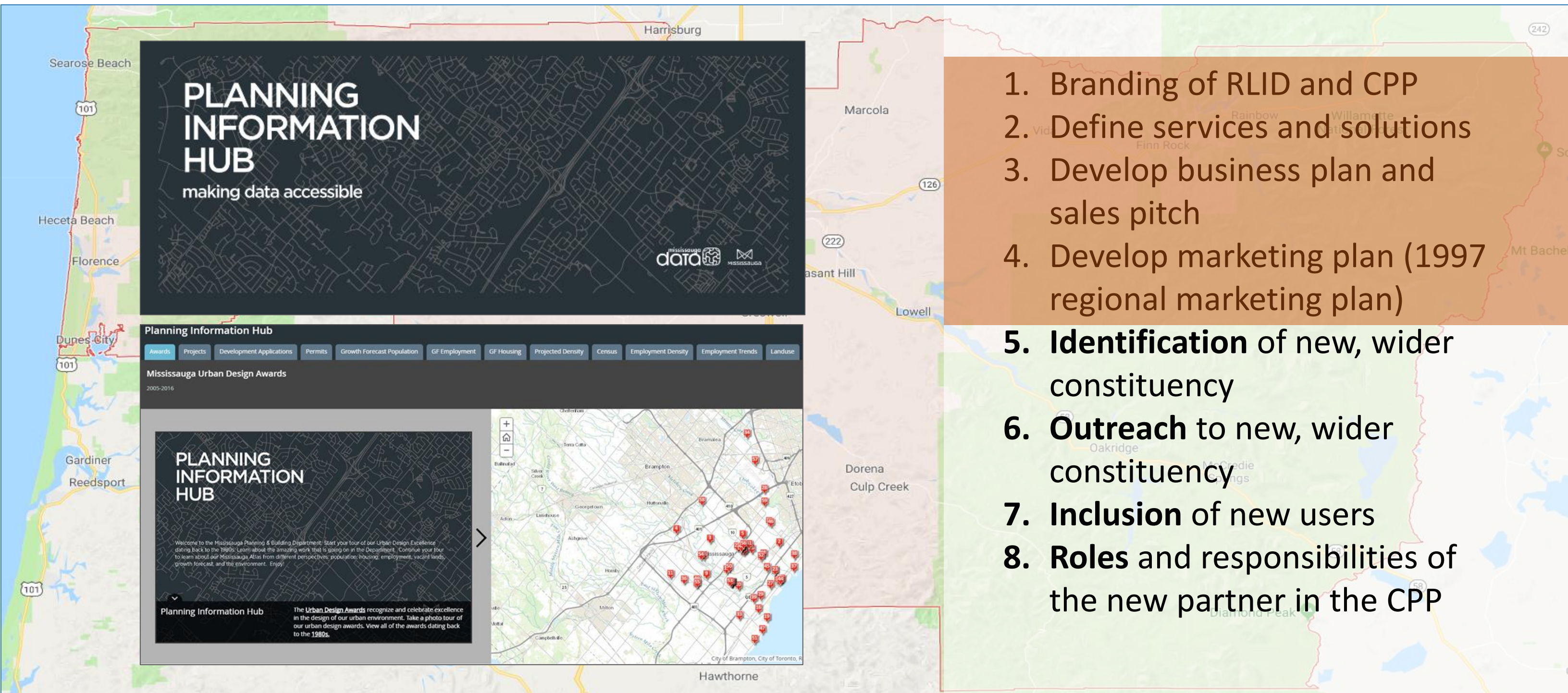


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PLANNING INFORMATION HUB
making data accessible

mississauga data MISSISSAUGA

Planning Information Hub

Awards Projects Development Applications Permits Growth Forecast Population GF Employment GF Housing Projected Density Census Employment Density Employment Trends Landuse

Mississauga Urban Design Awards
2005-2016

PLANNING INFORMATION HUB

Welcome to the Mississauga Planning & Building Department. Start your tour of our Urban Design Excellence dating back to the 1980s. Learn about the amazing work that is going on in the Department. Continue your tour to learn about our Mississauga Atlas from different perspectives: population, housing, employment, vacant lands, growth forecast, and the environment. Enjoy.

Planning Information Hub

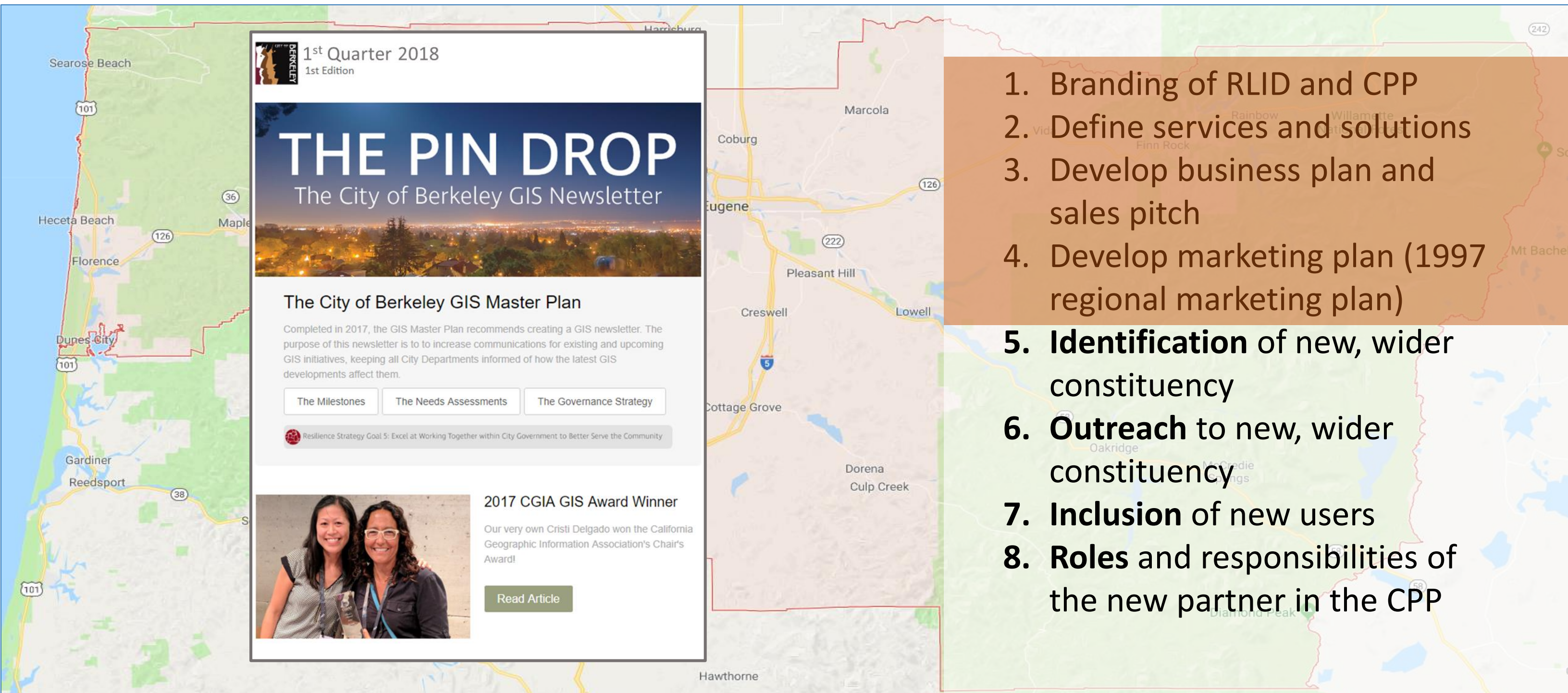
The Urban Design Awards recognize and celebrate excellence in the design of our urban environment. Take a photo tour of our urban design awards. View all of the awards dating back to the 1980s.

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1st Quarter 2018
1st Edition

THE PIN DROP


The City of Berkeley GIS Newsletter

The City of Berkeley GIS Master Plan

Completed in 2017, the GIS Master Plan recommends creating a GIS newsletter. The purpose of this newsletter is to increase communications for existing and upcoming GIS initiatives, keeping all City Departments informed of how the latest GIS developments affect them.

[The Milestones](#) [The Needs Assessments](#) [The Governance Strategy](#)

Resilience Strategy Goal 5: Excel at Working Together within City Government to Better Serve the Community



2017 CGIA GIS Award Winner

Our very own Cristi Delgado won the California Geographic Information Association's Chair's Award!

[Read Article](#)

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SPECIFIC LCOG QUESTIONS

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“The new agreement may include a wider constituency than the current governing and funding partnership composition. What methods do you propose for identification, outreach, and inclusion of other user groups and defining their role in the partnership?”

1. Email blasts

2. Social media posts and advertisements

3. Promotional videos

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SPECIFIC LCOG QUESTIONS

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Schools

- School District 19 (Springfield)
- School District 4J (Eugene)
- School District 40 (Creswell)
- School District 45J (South Lane)
- School District 52 (Bethel)
- School District 68 (McKenzie)
- Education, College, and Libraries:
 - Siuslaw Library District
 - Fern Ridge Library District
 - Lane Library District
 - Lane Community College
 - Lane Education Service District

Others

- Emerald People's Utility District
- Eugene Water & Electric Board
- Heceta Water People's Utility District
- Junction City RFPD
- Lane County
- Lane Transit District
- Port of Siuslaw

Cities

- City of Coburg
- City of Cottage Grove
- City of Creswell
- City of Dunes City
- City of Eugene
- City of Florence
- City of Junction City
- City of Lowell
- City of Oakridge
- City of Springfield
- City of Veneta
- City of Westfir

- River Road Park & Recreation
- Siuslaw Valley Fire & Rescue
- Western Lane Ambulance District
- Willamalane Park & Recreation District


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RLID and CPA

LEARN HOW TO UTILIZE THE FULL EXTENT OF GIS:

ROSWELL INTRODUCES NEW GIS WORKSHOPS

<p>MAR 30TH 2016</p> <p>MAY 25TH 2016</p> <p>JUL 27TH 2016</p> <p>SEP 28TH 2016</p> <p>NOV 30TH 2016</p> <p>JAN 25TH 2017</p>	<p>Introduction to Geographic Information Systems (GIS): What is GIS?</p> <p>The Architecture of GIS: Critical GIS Components</p> <p>The Mobility of GIS: How mobile is GIS? Using GIS in the Field to collect, maintain and update your databases</p> <p>GIS and the Natural Environment: Using GIS to manage parks, land, and natural resources</p> <p>The GIS Obstacle Course: Overcoming GIS Challenges, Barriers and Pitfalls</p> <p>The Future of GIS: The Future of GIS technology</p>	<p>APR 27TH 2016</p> <p>JUN 29TH 2016</p> <p>AUG 24TH 2016</p> <p>OCT 26TH 2016</p> <p>DEC 14TH 2016</p> <p>FEB 8TH 2017</p>	<p>Local Government Business Applications: How to effectively use GIS in Local Government operations</p> <p>Exploring the World of Esri Software: Demonstrating the Esri Software Suite</p> <p>GIS and Public Safety Operations: Utilizing GIS for Public Safety and Emergency Operations</p> <p>GIS: A Profitable Initiative: Creating a business case for GIS</p> <p>GIS Strategic Planning and Management: Planning, designing, and managing an enterprise and sustainable GIS</p> <p>The City of Roswell's Enterprise GIS: State of the Union: The City of Roswell's GIS Implementation Plan & Status Update</p>
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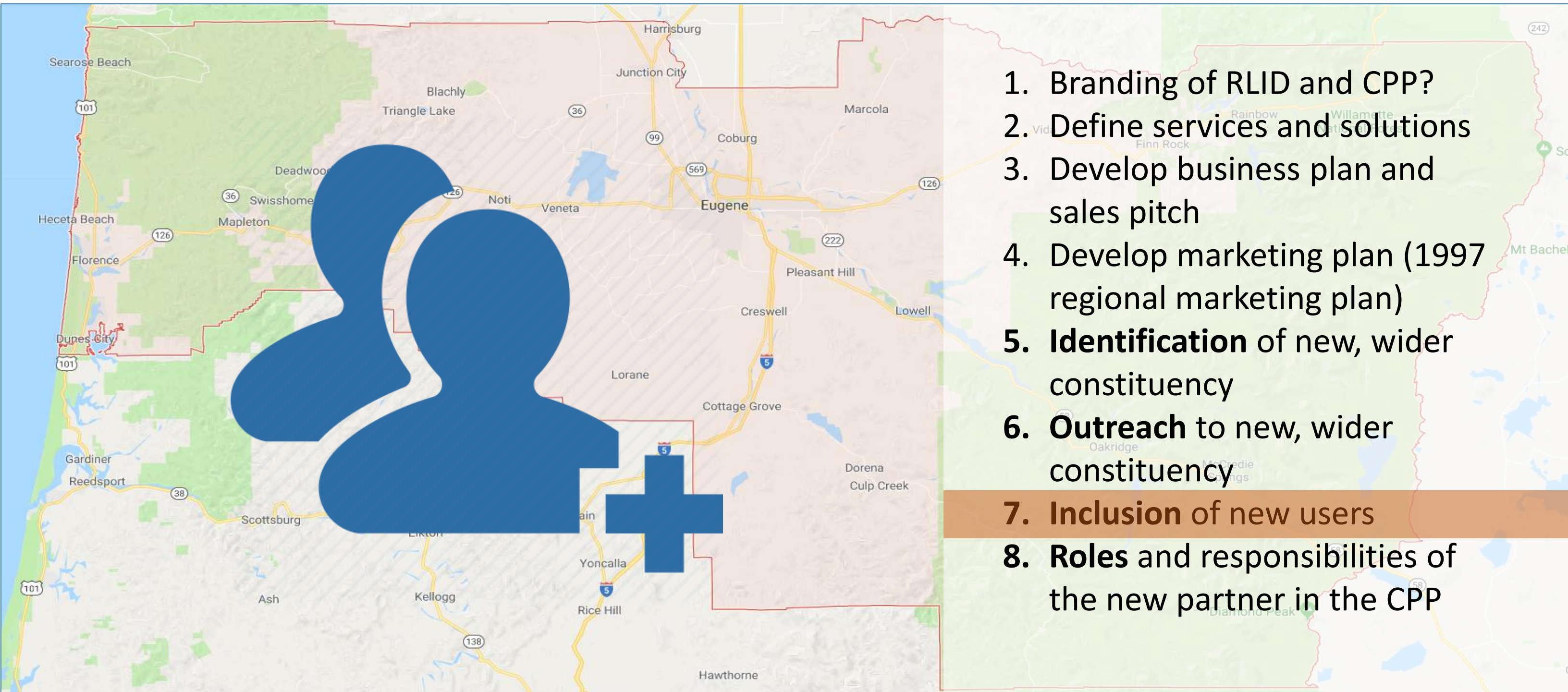
GEOGRAPHIC TECHNOLOGIES GROUP | 1202 PARKWAY DRIVE, GOLDSBORO, NC 27534 | P. 919.759.9214 F. 919.759.0410

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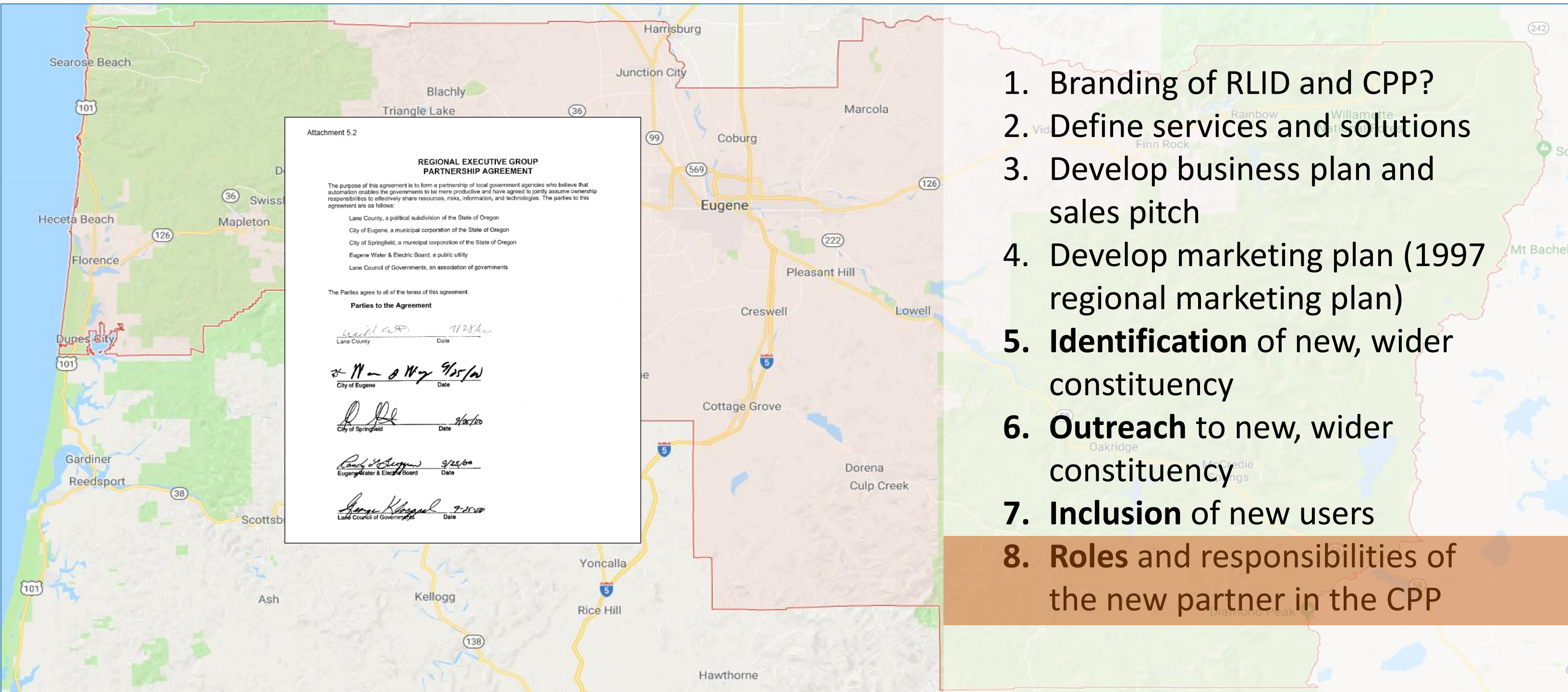


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7. **Inclusion** of new users
8. **Roles and responsibilities** of the new partner in the CPP

SPECIFIC LCOG QUESTIONS

4

“The new agreement may include a wider constituency than the current governing and funding partnership composition. What methods do you propose for identification, outreach, and inclusion of other user groups and defining their role in the partnership?”

NUMBER OF GIS USERS BEFORE AND AFTER IMPLEMENTATION

ORGANIZATION	BEFORE	AFTER
City of Roswell, GA	15	300
City of Vancouver and Clark County, WA	102	804
Columbus Consolidated Government, GA	67	425
Athens-Clarke County, GA	29	304
City of Casper and Natrona County, WY	11	229
City of Edina and LOGIS, MN	32	441
City of Winston-Salem and Forsyth County, NC	2402	3870
Orange County and Municipalities, CA	1753	4902
City of Eagan and LOGIS, MN	44	503
Gwinnett County and Municipalities, GA	96	373
Rome-Floyd County, GA	78	322
San Mateo County, CA	295	1660
Louisville/Jefferson County and LOJIC, KY	624	1490

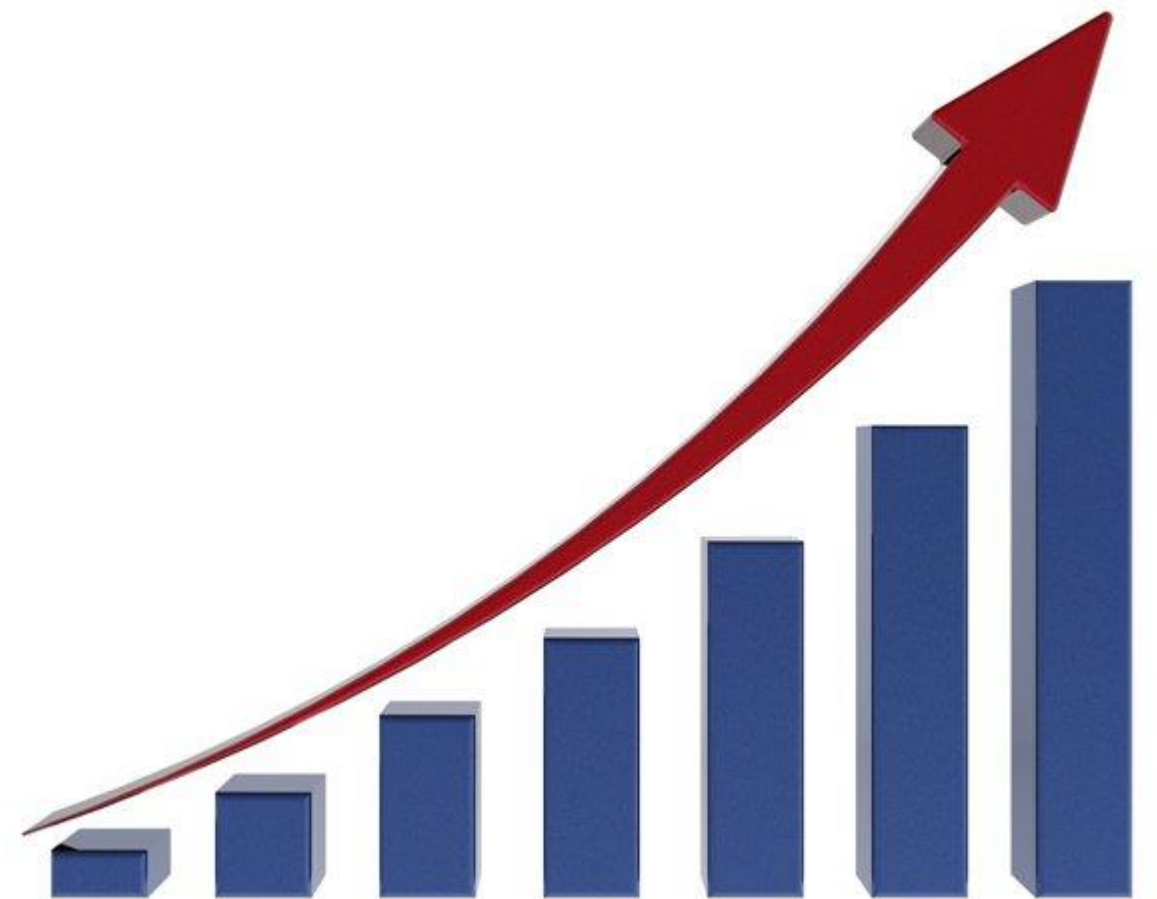


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	<hr/> 60 minutes



SPECIFIC LCOG QUESTIONS

5

“Discuss recent trends in software licensure, cloud computing, and on-line publishing of spatial data, such as ArcGIS Online. What are optimal and durable technological pathways for managing integrated and consolidated services in this environment?”

Clients: Cloud vs. Premise

Existing Client Examples

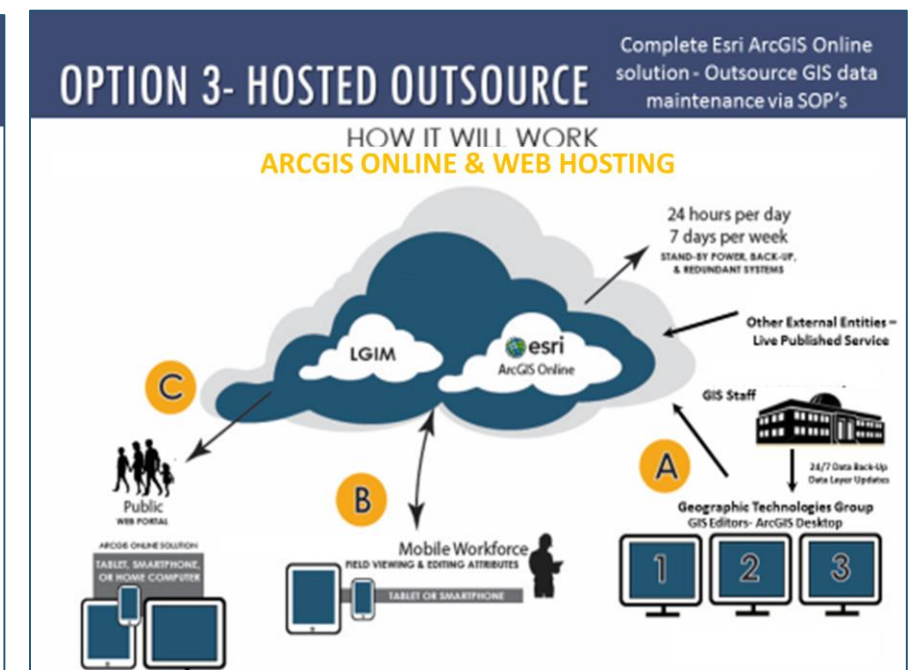
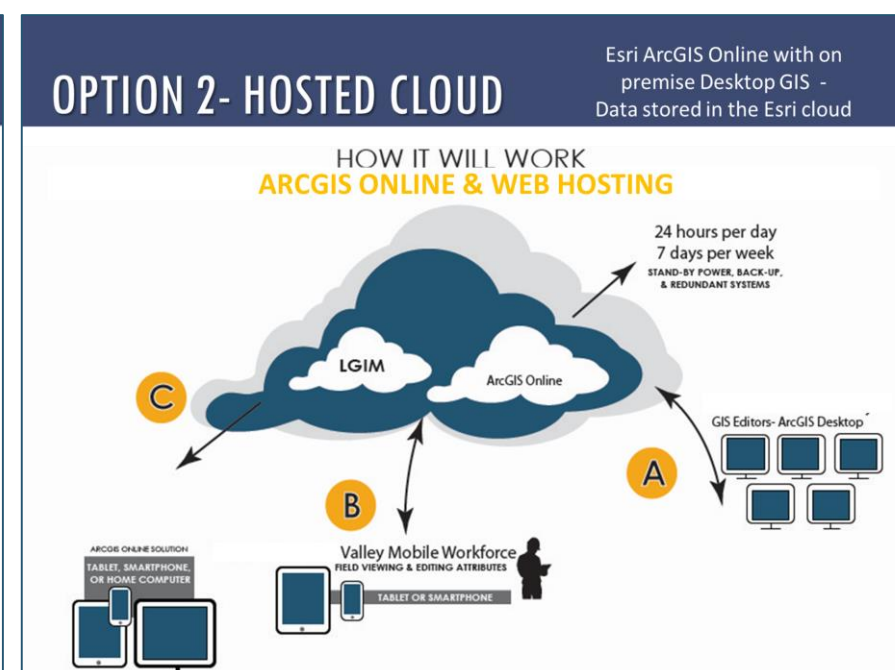
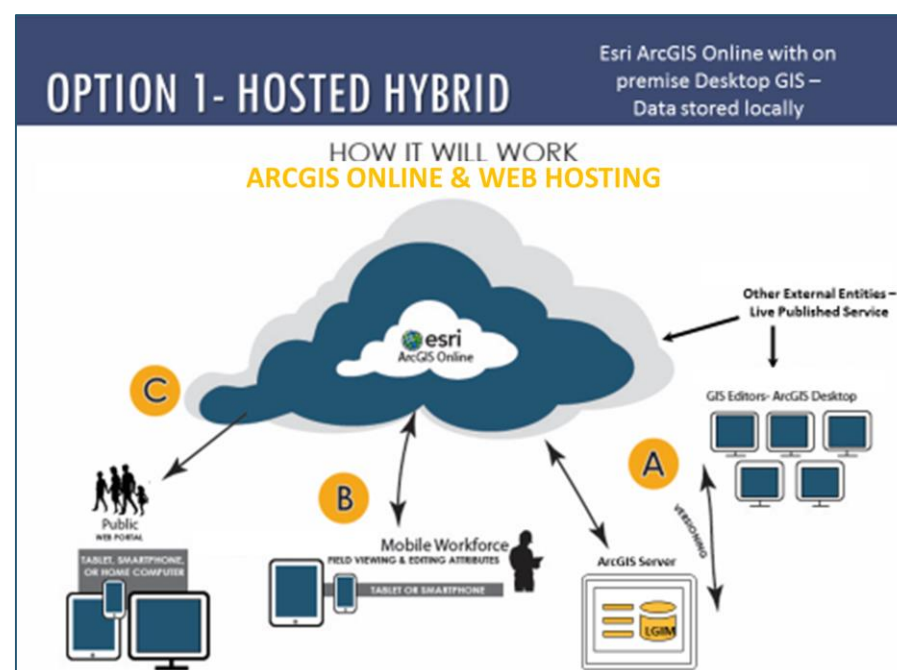
City of Guelph- Premise-Based and Cloud Solutions

City of Healdsburg- Premise-Based and Cloud

City of Unalaska- Premise-Based and Portal

Town of Windsor- Total Cloud Solution

City of Roswell- Premise-Based and Cloud Solutions



SPECIFIC LCOG QUESTIONS

5

“Discuss recent trends in software licensure, cloud computing, and on-line publishing of spatial data, such as ArcGIS Online. What are optimal and durable technological pathways for managing integrated and consolidated services in this environment?”

1. Recent trends in software licensing
2. Cloud computing in Local Government
3. Online Publishing of spatial data using ArcGIS Online
4. Optimum durable, technological pathways

- Options for LCOG

1. Complete ArcGIS Online
2. ArcGIS Enterprise and ArcGIS Online Hybrid (Premise-Based)
3. **ArcGIS Enterprise and ArcGIS Online Hybrid (Hosted)**
4. ArcGIS Enterprise and ArcGIS Online Hybrid (Premise and Hosted Hybrid)

Recommended

5. ArcGIS Hub



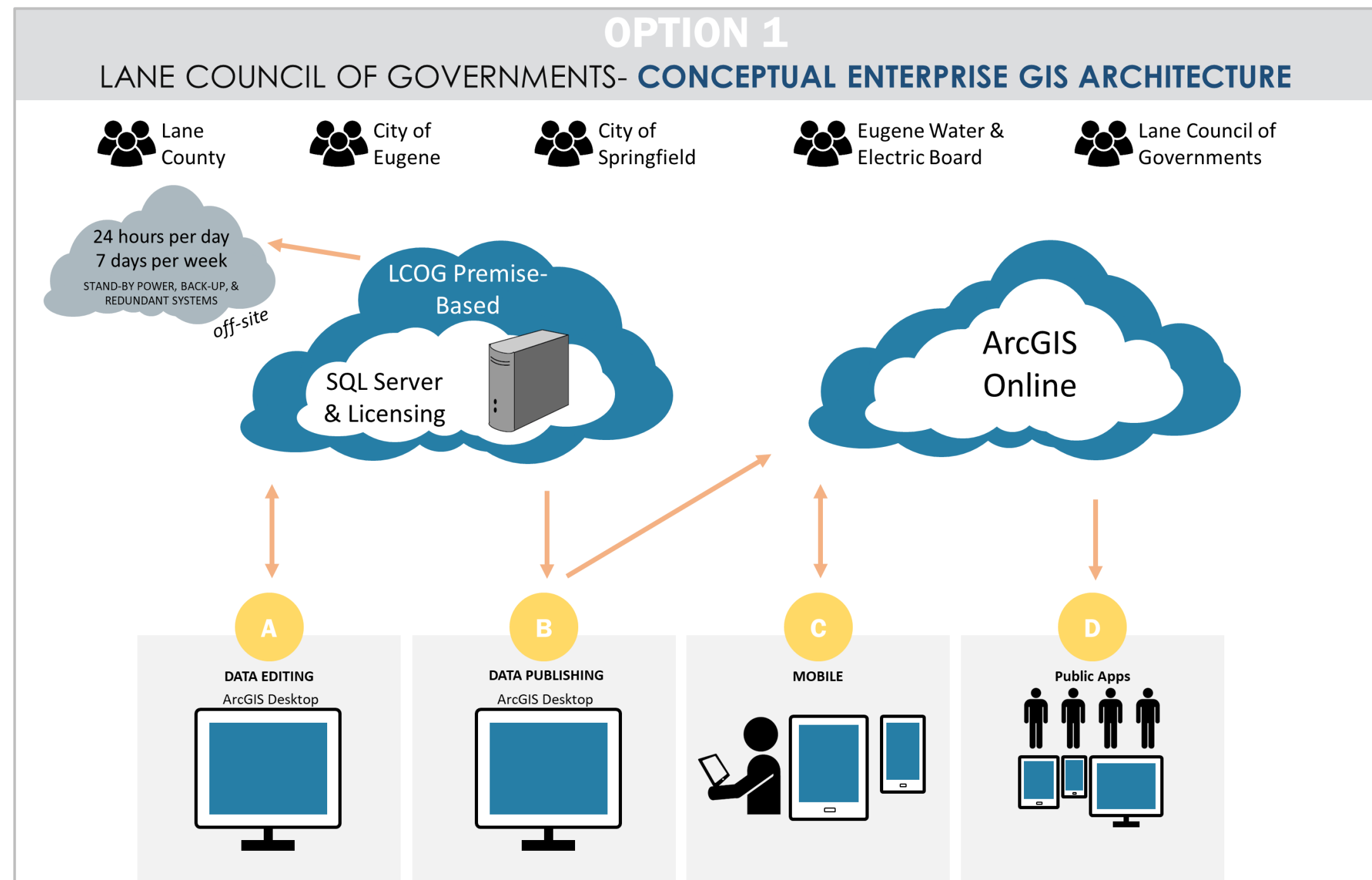
SPECIFIC LCOG QUESTIONS

5

“Discuss recent trends in software licensure, cloud computing, and on-line publishing of spatial data, such as ArcGIS Online. What are optimal and durable technological pathways for managing integrated and consolidated services in this environment?”

Option 1 – Complete ArcGIS Online

- Agencies store data in SQL and edit data in SQL
- Publish services using ArcGIS Online
- License manager for ArcGIS Desktop premise based on LCOG server
- ArcGIS Online accounts and groups



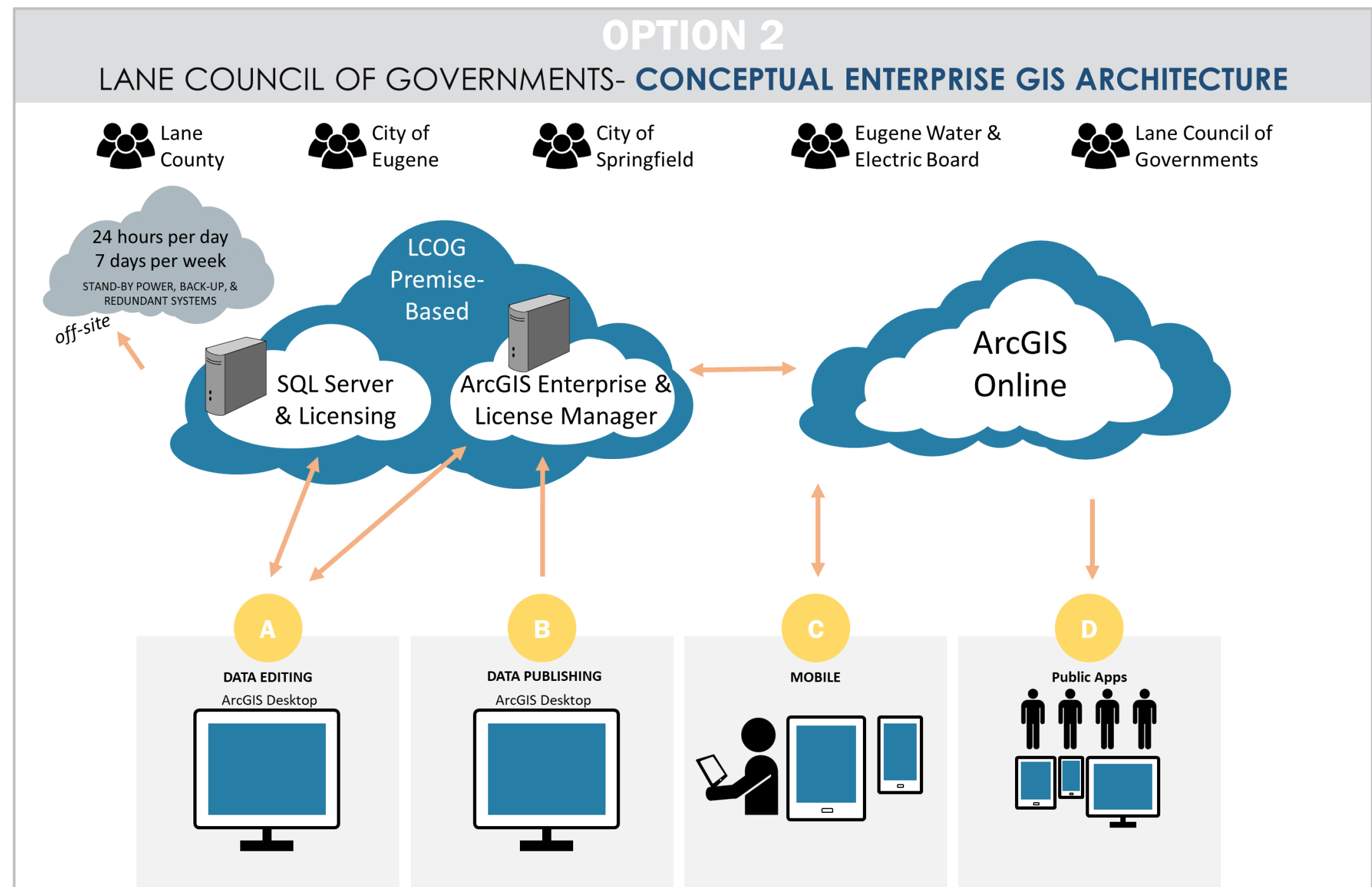
SPECIFIC LCOG QUESTIONS

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“Discuss recent trends in software licensure, cloud computing, and on-line publishing of spatial data, such as ArcGIS Online. What are optimal and durable technological pathways for managing integrated and consolidated services in this environment?”

Option 2 – ArcGIS Enterprise and ArcGIS Online Hybrid (Premise Based)

- Agencies store data in SQL and edit data in SQL
- Publish services using ArcGIS Enterprise
- Some services are public and routed through ArcGIS Online for public consumption
- License manager for ArcGIS Desktop premise based on LCOG server
- ArcGIS Online accounts and groups



SPECIFIC LCOG QUESTIONS

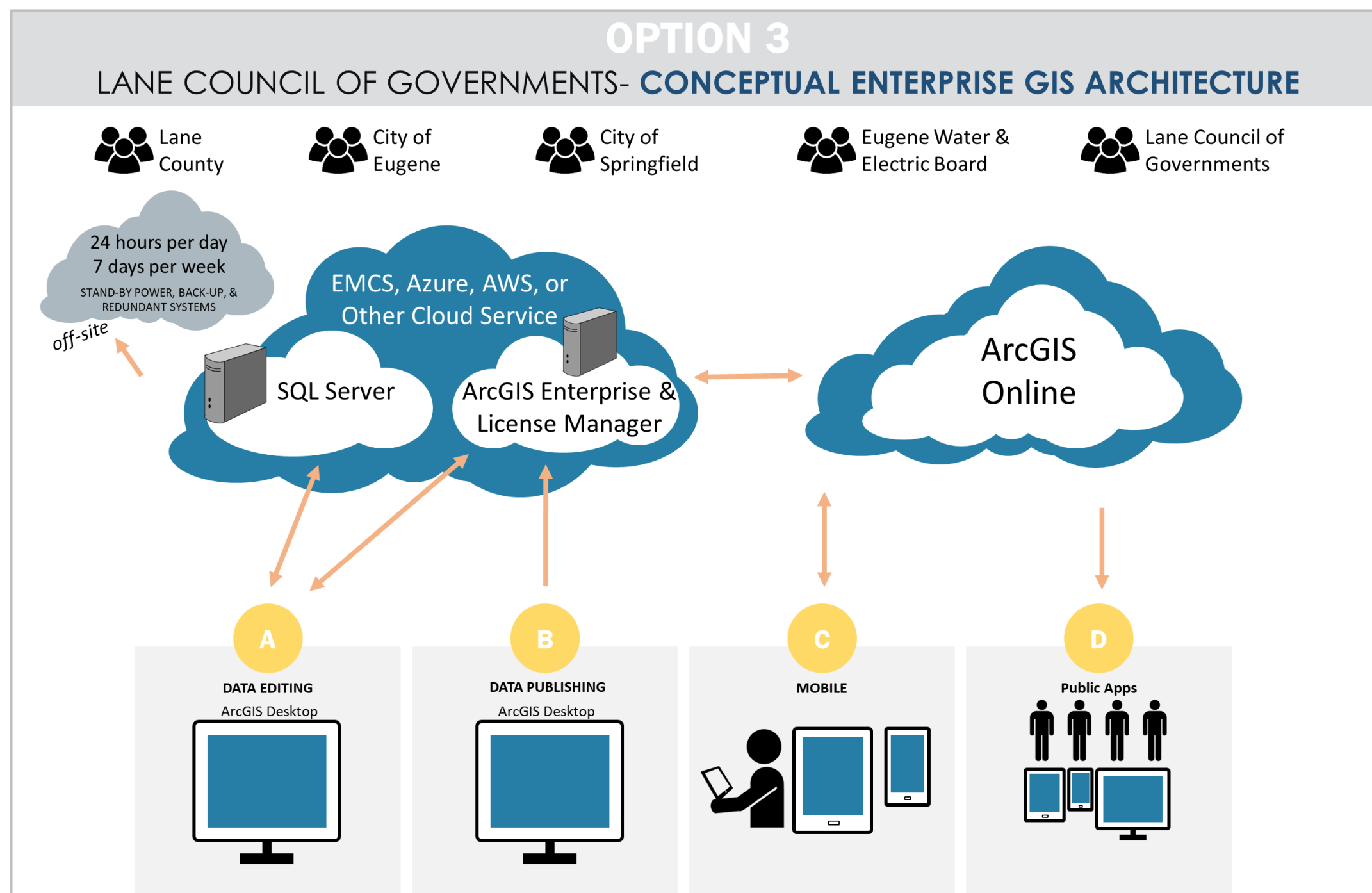
5

“Discuss recent trends in software licensure, cloud computing, and on-line publishing of spatial data, such as ArcGIS Online. What are optimal and durable technological pathways for managing integrated and consolidated services in this environment?”

Recommended

Option 3 – ArcGIS Enterprise and ArcGIS Online Hybrid (Hosted)

- Agencies store data in SQL and edit data in SQL which is hosted
- Publish services using ArcGIS Enterprise which is hosted
- Some services are public and routed through ArcGIS Online for public consumption
- License manager for ArcGIS Desktop on hosted server
- ArcGIS Online accounts and groups



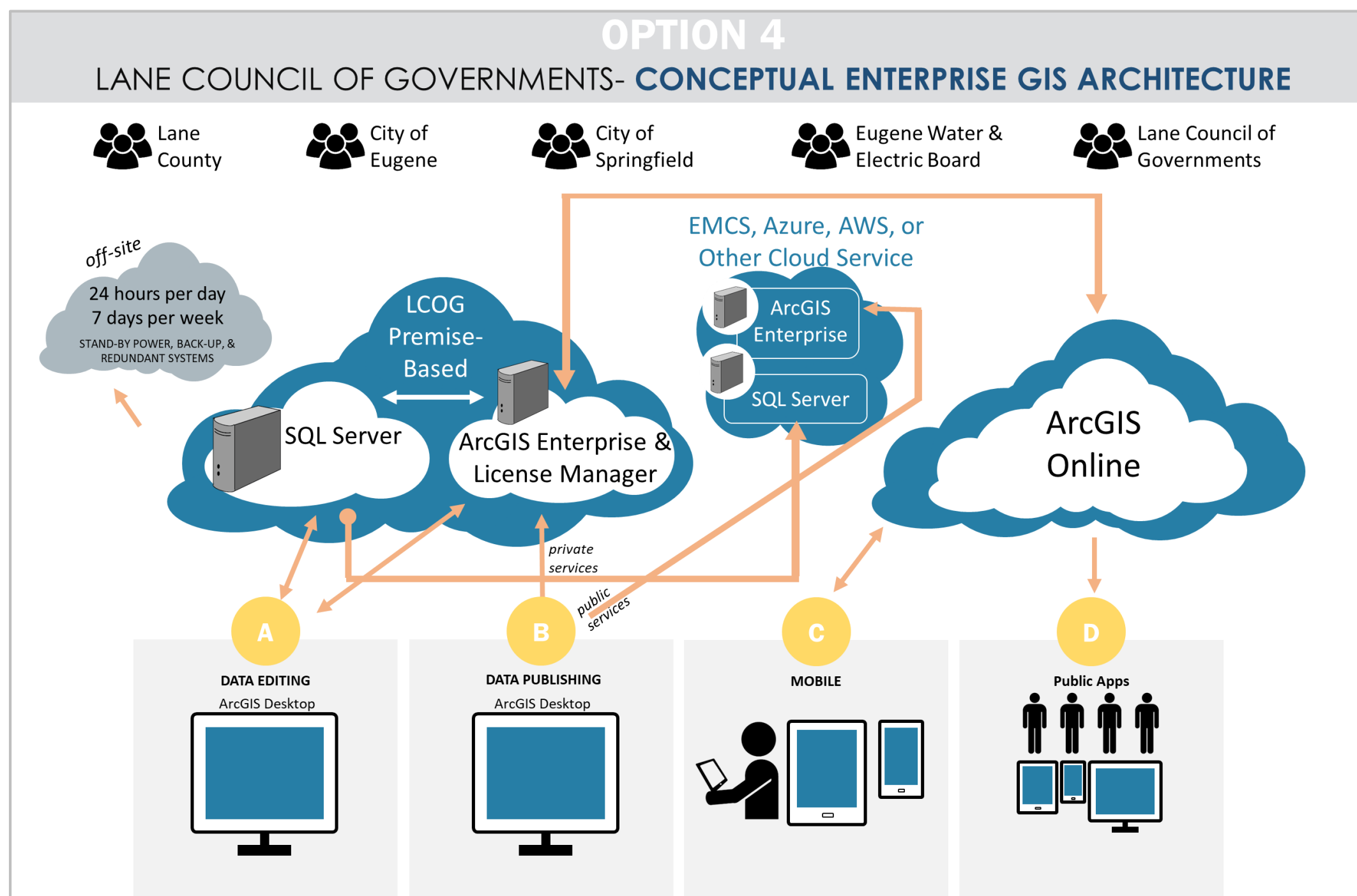
SPECIFIC LCOG QUESTIONS

5

“Discuss recent trends in software licensure, cloud computing, and on-line publishing of spatial data, such as ArcGIS Online. What are optimal and durable technological pathways for managing integrated and consolidated services in this environment?”

Option 4 – ArcGIS Enterprise and ArcGIS Online Hybrid (Premise and Hosted Hybrid)

- Agencies store data in SQL and edit data in SQL which is premise based
- Publish services using ArcGIS Enterprise
- Private services are published using premise based ArcGIS Enterprise
- Public services are published using hosted ArcGIS Enterprise
- Some services are public and routed through ArcGIS Online for public consumption
- License manager for ArcGIS Desktop premise based on LCOG server
- ArcGIS Online accounts and groups

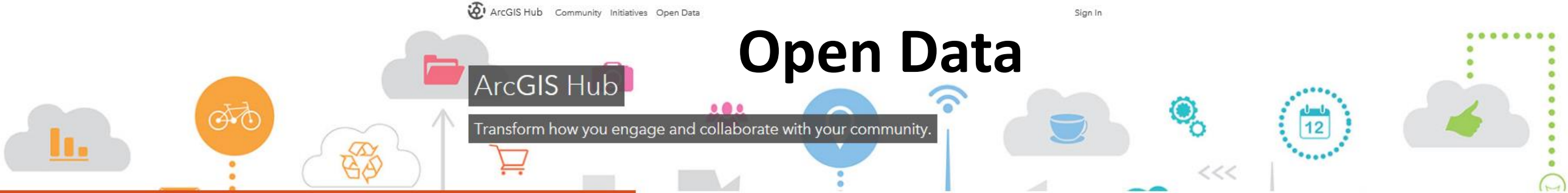


SPECIFIC LCOG QUESTIONS

5


“Discuss recent trends in software licensure, cloud computing, and on-line publishing of spatial data, such as ArcGIS Online. What are optimal and durable technological pathways for managing integrated and consolidated services in this environment?”

ArcGIS Open Data



ArcGIS Hub

Encourage people to take action and bring positive change in their own neighborhoods.



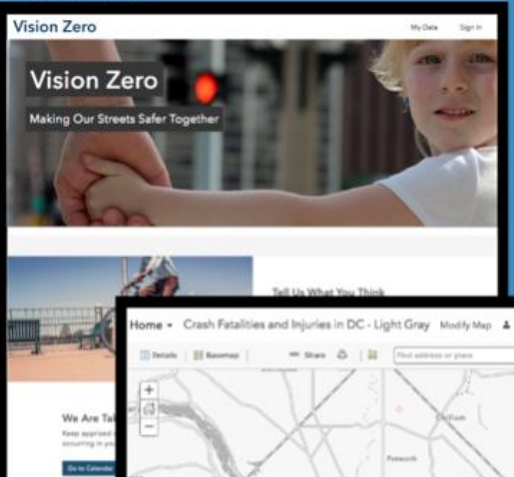
ArcGIS Hub provides a two-way engagement platform to connect government and citizens.

You get an interactive platform to organize people, processes, and technology. ArcGIS Hub comes with built-in event creation and sharing directly to Hub websites and your Hub mobile app. It also allows you to gather feedback from inside and outside your organization to find or create new solutions to existing problems.

[Learn More](#)

Hub initiatives take on real-world issues that matter to your neighborhood, town, city, or even the world.

Through initiatives, ArcGIS Hub provides a set of tools and apps you can use to engage your community in the work you're doing. Use initiatives to listen to the needs of your citizens. Share information about government efforts. Involve those who want to help. Then, show and monitor the progress your community is making towards its goals.



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ArcNews

Fall 2017

ArcGIS Hub: A Catalyst for Creating Smart Communities

New Framework for Government-Resident Collaboration Goes Beyond Open Data

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No one cares about a neighborhood as much as the people who live in it. Our communities are where we spend our daily lives—going to work and school, walking our dogs, raising our children, making what often amounts to the largest financial decision of our lives, and sleeping every evening. Neighborhoods are part of an urban tapestry, working together to build diverse, resilient, and livable regions.

Residents and citizens want to actively engage with government to understand policies, share their local knowledge, and improve their communities. There is a tremendous opportunity to use modern technology, combined with the collective knowledge of governments and researchers, to improve constituent engagement.

Esri has worked with communities around the world to figure out what encourages effective governments to work closely with residents, and vice versa. All facets of policy making, people, processes, and technology need to be in balance and aligned to make engagement efforts honest, supported, and successful. So while innovative technology can dramatically improve citizens' access to government and the overall success of such partnerships, it needs to be deployed in a way that supports shared outcomes. That is where ArcGIS Hub comes into play.

It Starts with a Goal

Open data is a global movement to share authoritative information that is public and reusable to drive economic development, improve government efficiency, and increase stakeholder engagement. ArcGIS Open Data enables any organization to quickly and freely share its data—both geospatial and tabular—in common, open formats with a simple user experience on officially branded websites. More than 6,000 government, nonprofit, and commercial organizations use ArcGIS Open Data to provide open information to their constituents and customers.

In working with many government staff members, research groups, and communities on ArcGIS Open Data, Esri learned both the benefits and shortcomings of open data policies. Governments often ask which pieces of data they should release first and how they can know that their open data is actually being used to improve livelihoods or businesses. And while citizens, researchers, and businesses want up-to-date, authoritative information to improve their awareness and decision-making, they often don't know which data will be the most useful until they know what data their governments can make available.

By itself, open data is a great set of principles, but the concept often lacks focused goals or expected outcomes. Open data is much more effective when it is driven by strategic priorities and empowered to measure outcomes for improving engagement on specific, constituent-centered benefits.

In July, Esri introduced ArcGIS Hub, a new two-way engagement platform that truly connects government and citizens. ArcGIS Hub includes tools for managing open data and introduces a new framework designed to prioritize initiatives, organize data and teams, measure the progress of key performance indicators, and empower the community to understand complex relationships with explorative analytics and infographic reports. ArcGIS Hub goes beyond open data. It is a catalyst for creating smart communities.

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	<hr/> 60 minutes



SPECIFIC LCOG QUESTIONS

6

“Discuss your experience balancing private and public funding of public data services. What are the advantages and disadvantages of open data, and how can the value of open data be measured and funded?”

Part A: Discuss your experience balancing private and public funding of public data services.

(Private companies, businesses, residents and other government agencies paying for “public” data services)

Case Study #1: Clarke County, Washington

About LOGIS?

Clarke County is headquartered in Golden Valley, **Local Government Information Systems**

(LOGIS) About LOJIC

Top 8
Organ
receiv
privat
selling ge
services.

The **Louisville/Jefferson County Information Consortium (LOJIC)** is a multi-agency partnership to build and maintain a Geographic Information System (GIS) to serve Louisville Metro and Jefferson County. We develop interactive [maps](#), maintain geographic [data](#), and provide a variety of map and data [services](#) for Louisville, KY.

LOGIS in such as We have an open data portal at <http://data.lojic.org/> and we make some of our web services available to public use. <https://www.lojic.org/services/web-services> We do have commercial and noncommercial fees in accordance with

Kentucky Revised Statute 61

<https://www.lojic.org/>

SPECIFIC LCOG QUESTIONS

6

“Discuss your experience balancing private and public funding of public data services. What are the advantages and disadvantages of open data, and how can the value of open data be measured and funded?”

Part B: What are the advantages and disadvantages of open data, and how can the value of open data be measured and funded?”

OPEN DATA: WHAT IS IT?

Open data is the idea that some **data** should be freely available to everyone to use and republish as they wish, without restrictions from copyright, patents or other mechanisms of control.

OPEN DATA: WHAT ARE THE ADVANTAGES?

“Openness and open data in government strengthens our democracy, promotes the delivery of efficient and effective services to the public, and contributes to economic growth”.

ADVANTAGES

1. Part of the recognized digital transformation
2. Improves citizen engagement. Allows citizen to improve their communities
3. Wider participation
4. Part of the smart city and smart government initiative
5. Simplifies and improves lives of individuals
6. Helps manages public services more efficiently
7. Promotes sustainable communities
8. Raw material for economic growth and associated benefits – inspires developers
9. Encourages accountable, efficient and effective government
10. Helping create a data driven culture
11. The value of information transparency

<http://opendata.gis.co.scott.mn.us/>

<https://opendurham.nc.gov/pages/home/>

<http://www.cambridgema.gov/departments/opendata>

<https://www.chapelhillopendata.org>

DISADVANTAGES

1. Violating Privacy
2. Misuse of Data
3. Misinterpretation of Data
4. Cost of maintaining accurate and reliable data
5. Adverse response to sensitive data
6. Data gaps and interpretation
7. Tools must be developed for cleaning, sorting, analyzing and visualizing open data
8. Data collected under different conditions or with different assessment tools should not be combined

SPECIFIC LCOG QUESTIONS

6

“Discuss your experience balancing private and public funding of public data services. What are the advantages and disadvantages of open data, and how can the value of open data be measured and funded?”

Part C: How can the value of Open Data be measured and funded?

Answer: “Open data can combine data, visualization, analytics, and collaboration technology to enable governments and citizens to work together on real-world initiatives that tackle the most pressing issues in their communities.”

ISSUE #1

**Difference between
Revenue Generation
vs.
Cost Recovery?**

ISSUE #2

Measuring and Funding

- 1. Funding the Delivery of Data**
- 2. Develop Price for Cost Recover or Revenue Generation**
 - a. Software Solutions
 - Subscription Based Solutions
 - Free Solutions
 - Based on Population
 - Number of Users
 - Flat Rate Partnership Fixed rate
 - b. GIS Services
 - Cost Structure
 - Hourly rates
 - Flat Rate
 - Service Level Agreements (See LOGIS Agreement)

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	<hr/> 60 minutes



THE HIGH PERFORMANCE ORGANIZATION (HPO) FRAMEWORK

- 1 What is high performance for LCOG and RLID?
- 2 How would we know if we were high performing?
- 3 According to whom are we high performing?
- 4 Why do we need to be high performing?
- 5 Is what we are doing the right “what”?
- 6 How good are we at delivering our products and services?
- 7 How are we going to treat each other, our partners, customers, and other stakeholders?

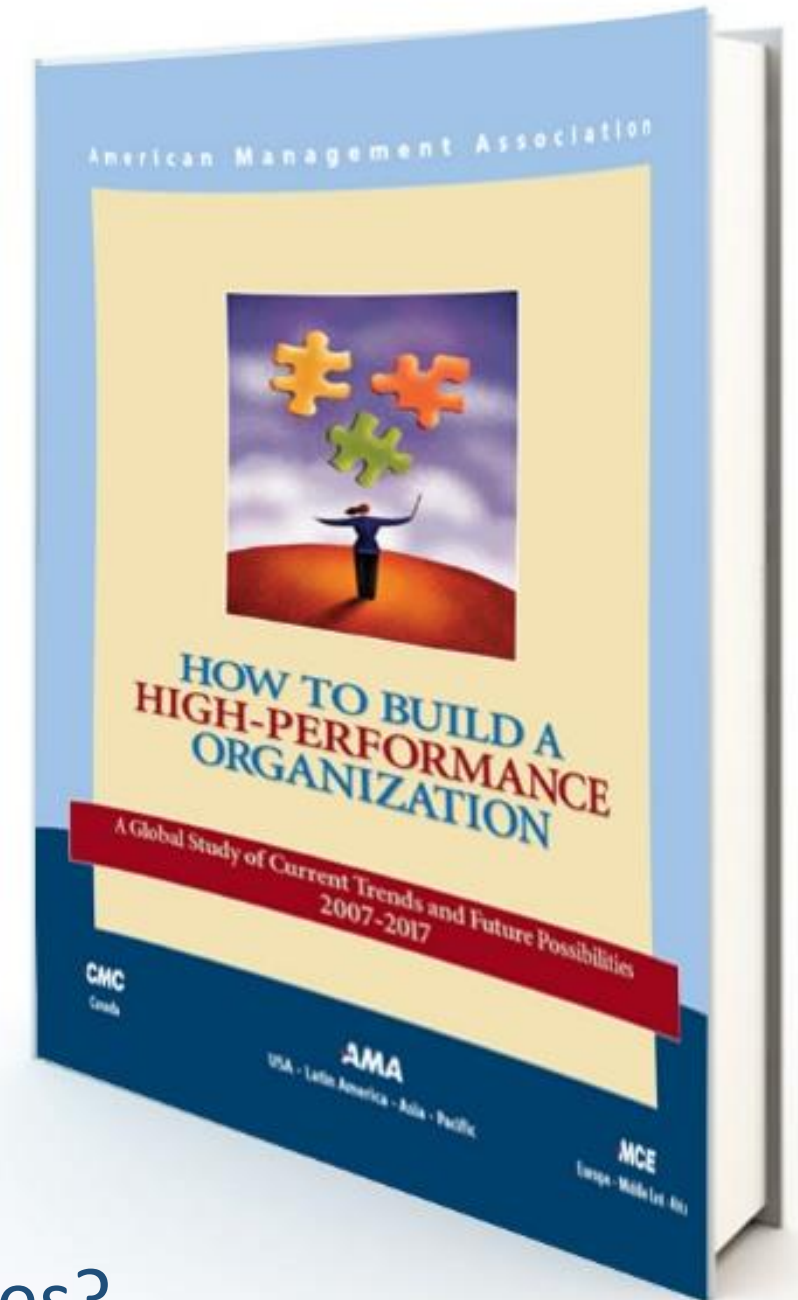


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Technical Local Government
GIS Expertise



Strategic Technology
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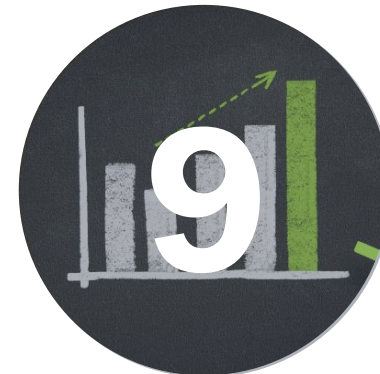
Information Technology (IT)
and System Design
Experience



Team Qualifications:
Strategic Planning, Utilities,
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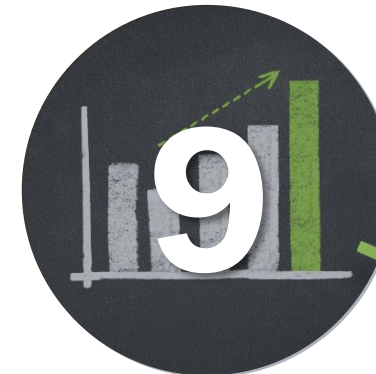
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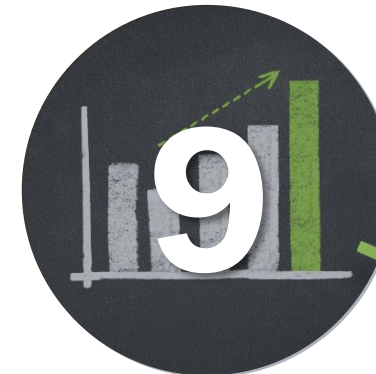
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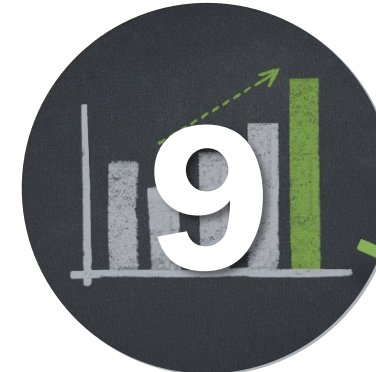
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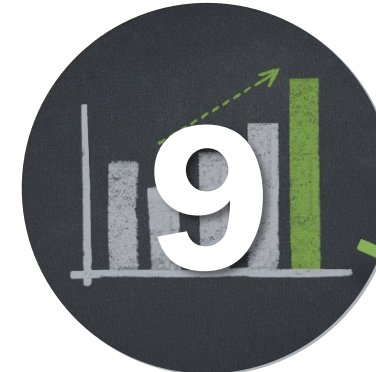
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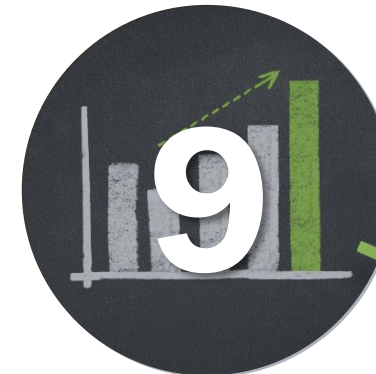
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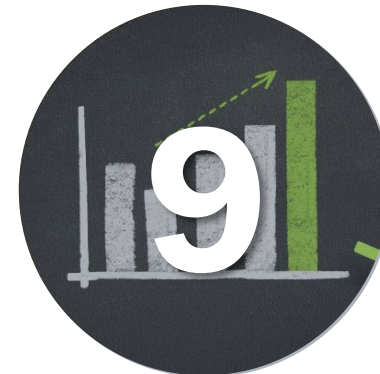
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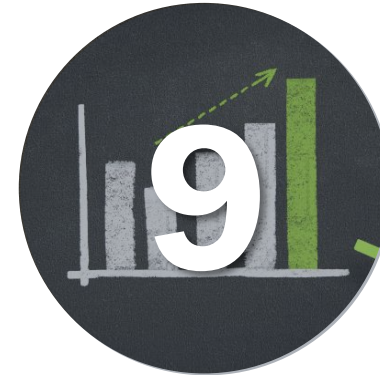
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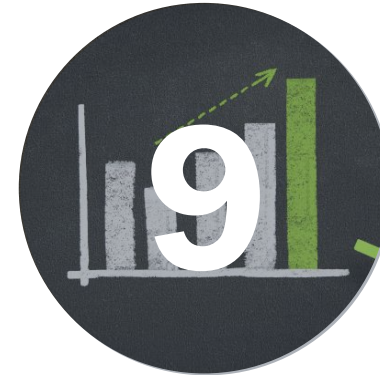
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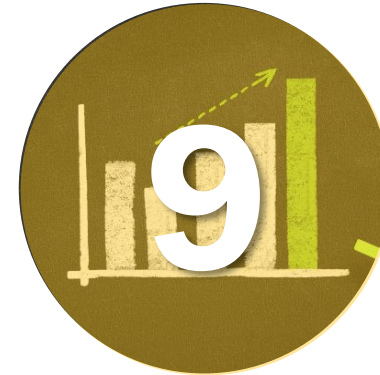
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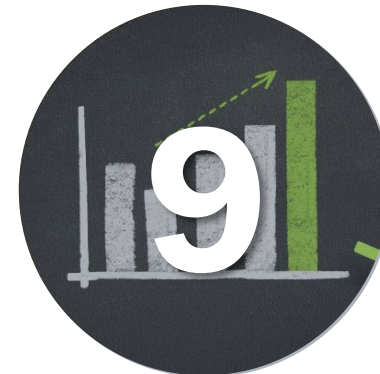
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QUESTIONS

Q & A

Why is a Regional Model full of opportunities?

What can LCOG – RLID/CPP and this Interagency model offer the region?



Monday, January 8th, 2018

3:00pm to 4:00pm

LANE COUNCIL OF GOVERNMENTS

THANK YOU



**An Award Winning and Nationally
Recognized Model of Interagency
Cooperation and GIS Achievement**



ArcGIS Online
Specialty



ArcGIS for
Local Government
Specialty